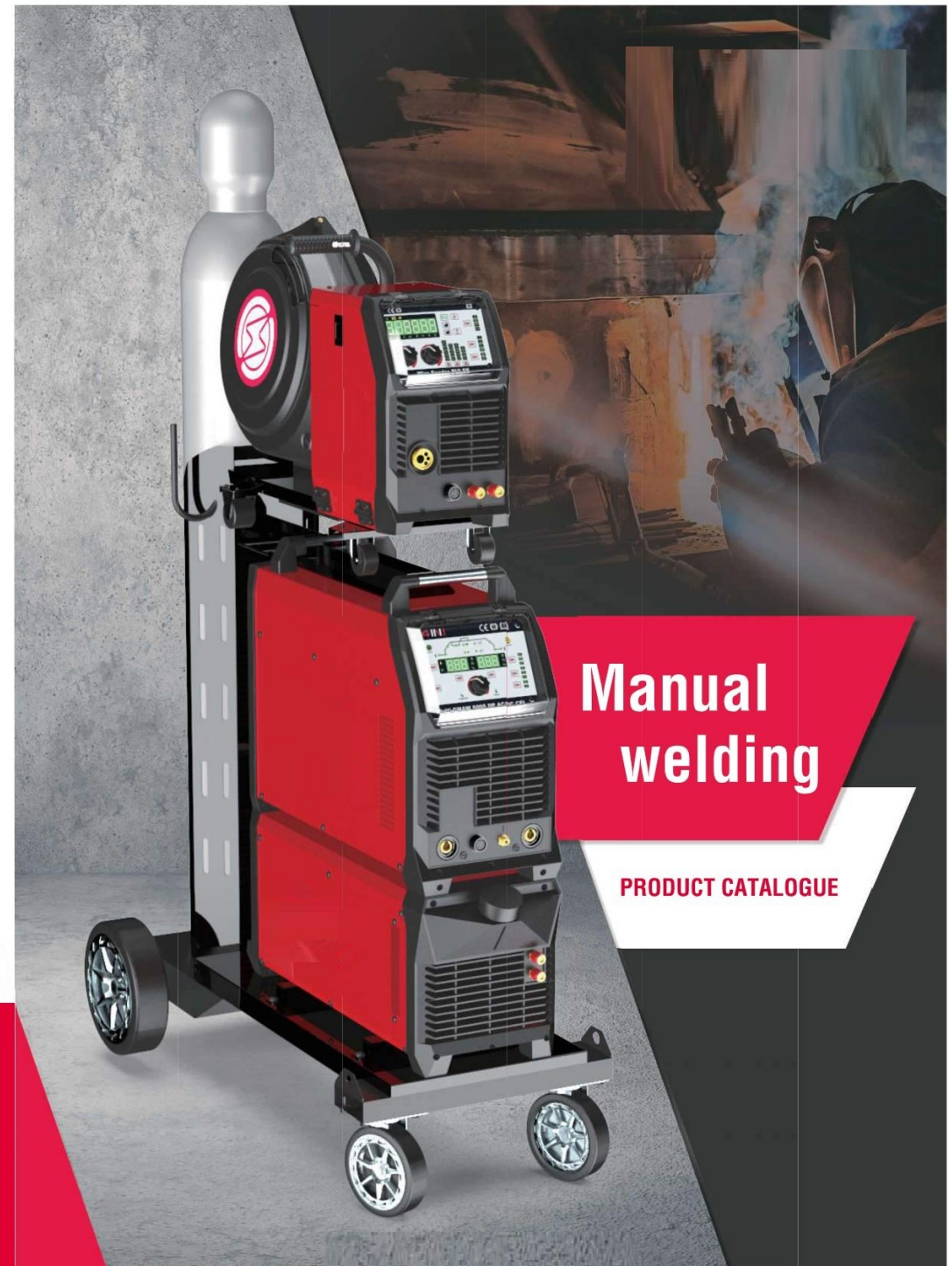




CONTACT US



Manual
welding

PRODUCT CATALOGUE

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MMA STICK INVERTER



Arc ignition and stability dynamic control ensure that every electrode burns effortlessly to produce quality welds.

Compact, lightweight and capable. Our stick (MMA) welding equipment meets professional welding demands in every respect.

The PFC series machines also set new benchmarks in terms of technology. The resonant intelligence system guarantees an extremely stable arc, even with longer mains leads or in the event of fluctuations in the mains voltage.

Designed for trade and industry, the Stick devices are also able to withstand even the most difficult requirements in the industrial sector.

Thanks to continuous feedback of the arc to the performance parameters, there is an immediate response to any change.

DC INVERTER MMA WELDER



MMA Series

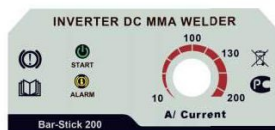
User-friendly interface
Versatile
Precise welding quality
/ compact



Applications ✓

- Small maintenance
- Light construction
- Light metal fabrication
- On-site repair
- Outside and workshop welding jobs
- Hobby

Control Panel ✓



KEY BENEFITS

- **Extra function**-Adjustable Hot Start/Arc Force, Anti-sticking automatic.
- **Protections**-Equipped with temperature, voltage and current sensors for high protection.
- **Weight**-Reduced weight and size, easy-to-carry.



440V Tested In Production



Standard single phase **1-230V**
50/60Hz power supply.



Generator Friendly-
Suitable for use with generators.

TECHNICAL DATA (subject to change without notice.)

	Bar-Stick 120	Bar-Stick 140	Bar-Stick 160	Bar-Stick 180	Bar-Stick 200	Bar-Stick 220
Power Supply Voltage	1-230	1-230	1-230	1-230	1-230	1-230
Grid frequency	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz
Effective Current	12 A	13.5 A	18 A	17 A	23 A	23 A
Rated Input Power	3.7kVA	4.9kVA	5.0kVA	5.6kVA	6.5kVA	7.3kVA
Rated Input Current	27 A	35 A	36 A	39 A	46 A	52 A
Duty Cycle(40°C 10min)	20% 120 A	15% 140 A	25% 160 A	20% 180 A	25% 200 A	20% 220 A
	60% 80 A	60% 70 A	60% 105 A	60% 105 A	60% 130 A	60% 145 A
	100% 60 A	100% 55 A	100% 80 A	100% 80 A	100% 80 A	100% 100 A
No Load Voltage	53	55	70	70	70	70
WELDING CURRENT RANGE	10 – 120A	10 – 140A	10 – 160A	10 – 180A	10 – 200A	10 – 220A
Efficiency	80%	80%	80%	80%	80%	80%
Power Factor	0.65	0.65	0.65	0.65	0.65	0.65
Insulation class	H	H	H	H	H	H
Protection class	IP 23	IP 23	IP 23	IP 23	IP 23	IP 23
Cooling	AF	AF	AF	AF	AF	AF
Dimensions l x w x h	280 x 117 x 195mm	280 x 117 x 195mm	280 x 117 x 195mm	280 x 117 x 195mm	280 x 117 x 195mm	280 x 117 x 195mm
Weight	2.8 kg	2.8 kg	2.8 kg	2.8 kg	3.2 kg	3.2 kg
Electrode Diameter	φ 1.6-4.0	φ 1.6-4.0	φ 1.6-4.0	φ 1.6-4.0	φ 1.6-4.0	φ 1.6-4.0
Electrode type	6013 7018	6013 7018	6013 7018	6013 7018	6013 7018	6013 7018
Order information	1.0001.1001(-E)	1.0001.1002(-E)	1.0001.1003(-E)	1.0001.1004(-E)	1.0001.1005(-E)	1.0001.1006(-E)

MMA welding equipment Small but powerful

Bar-Stick 120/140/160/180/200/220



User-friendly interface
Versatile
Precise welding quality
/ compact



Applications ✓

- Small maintenance
- Light construction
- Light metal fabrication
- On-site repair
- Outside and workshop welding jobs
- Hobby

Control Panel ✓



KEY BENEFITS

- **Extra function**-Adjustable Hot Start/Arc Force, Anti-sticking automatic.
- **Protections**-Equipped with temperature, voltage and current sensors for high protection.
- **Weight**-Reduced weight and size, easy-to-carry.
- **TIG Mode**-Capable of welding with Lift TIG mode.



440V Tested In Production



1/110V / 1-230V 50/60Hz power supply.



Generator Friendly-
Suitable for use with generators.

TECHNICAL DATA (subject to change without notice.)

	Sim-Stick 130 DV		Sim-Stick 200 DV	
Power Supply Voltage	1-127	1-220	1-127	1-220
Grid frequency	50/60Hz		50/60Hz	
Effective Current	19 A	18 A	19 A	25 A
Rated Input Power	4.1kVA	4.1kVA	4.1kVA	7.2kVA
Rated Input Current	50 A	29 A	50 A	46 A
Duty Cycle(40°C 10min)	15% 130 A	40% 130 A	15% 130 A	30% 200 A
	60% 65 A	60% 65 A	60% 65 A	60% 145 A
	100% 50 A	100% 50 A	100% 50 A	100% 110 A
No Load Voltage	77	66.7	77	66.7
WELDING CURRENT RANGE	10 – 130A		10 – 200A	
Efficiency	80%		80%	
Power Factor	0.65		0.65	
Insulation class	H		H	
Protection class	IP 23		IP 23	
Cooling	AF		AF	
Dimensions l x w x h	280 x 117 x 195mm		280 x 117 x 195mm	
Weight	4.0 kg		4.0 kg	
Electrode Diameter	φ 1.6-4.0		φ 1.6-4.0	
Electrode type	6013 7018		6013 7018	
Order information	1.0001.1022(-E)		1.0001.1028(-E)	

MMA welding equipment Small but powerful

Sim-Stick 130/200 DV



User-friendly interface
Versatile
Precise welding quality
/ compact



Applications ✓

- Small maintenance
- Light construction
- Light metal fabrication
- On-site repair
- Outside and workshop welding jobs
- Hobby

Control Panel ✓



KEY BENEFITS

- **TIG Mode**-Capable of welding with Lift TIG mode.
- **Extra function**-Adjustable Hot Start/Arc Force, Anti-sticking automatic.
- **Protections**-Equipped with temperature, voltage and current sensors for high protection.
- **Digital display**-Digital control of all the welding parameters, Easy to understand graphic panels.



Generator Friendly
Suitable for use with generators.



Standard single phase **1-230V**
50/60Hz power supply.



440V Tested In Production



Digital control system-the welding parameter can be control more easier and more precise.



Smart FAN-Reduce power consumption and the intake of dust and fumes.

TECHNICAL DATA (subject to change without notice.)

	Stick 160		Stick 180		Stick 200		Stick 220	
Power Supply Voltage	1-230		1-230		1-230		1-230	
Grid frequency	50/60Hz		50/60Hz		50/60Hz		50/60Hz	
Effective Current	MMA	LIFT	MMA	LIFT	MMA	LIFT	MMA	LIFT
Rated Input Power	18 A	11 A	15.5 A	11 A	23 A	23 A	23 A	18.4 A
Rated Input Current	8.2kVA	6.4kVA	9.2kVA	6.4kVA	10.6kVA	8.3kVA	11.9kVA	9.4kVA
Duty Cycle(40°C 10min)	36 A	28 A	40 A	28 A	46 A	36 A	52 A	41 A
	25% 160 A		20% 180 A		25% 200 A		20% 220 A	
	60% 105 A		60% 105 A		60% 130 A		60% 130 A	
	100% 80 A		100% 80 A		100% 80 A		100% 100 A	
No Load Voltage	70		70		70		70	
WELDING CURRENT RANGE	10 – 160A		10 – 180A		10 – 200A		10 – 220A	
Efficiency	80%		80%		80%		80%	
Power Factor	0.65		0.65		0.65		0.65	
Insulation class	H		H		H		H	
Protection class	IP 23		IP 23		IP 23		IP 23	
Cooling	AF		AF		AF		AF	
Dimensions l x w x h	290 x 135 x 220mm		290 x 135 x 220mm		290 x 135 x 220mm		290 x 135 x 220mm	
Weight	4.0 kg		4.0 kg		4.0 kg		4.0 kg	
Electrode Diameter	φ 1.6-4.0		φ 1.6-5.0		φ 1.6-5.0		φ 1.6-5.0	
Electrode type	6013 7018		6013 7018		6013 7018		6013 7018	
Order information	1.0001.0041(-E)		1.0001.0042(-E)		1.0001.0044(-E)		1.0001.0049(-E)	

MMA welding equipment Small but powerful

Stick 160/180/200/220



User-friendly interface
Versatile
Precise welding quality
/ compact



Professional performance, industrial perfection

ES-Stick 160/200 PFC



Applications ✓

- Light fabrication
- Plant construction
- Maintenance service
- Repair and maintenance
- On-site intervention
- Process industry

Control Panel ✓



KEY BENEFITS

- **TIG Mode**-Capable of welding with Lift TIG mode.
- **Extra function**-Adjustable Hot Start/Arc Force, Anti-sticking automatic.
- **Weight**-Reduced weight and size, easy-to-carry.
- **Protections**-Equipped with temperature, voltage and current sensors for high protection.



POWER FACTOR CORRECTION
Power factor more than 0.9 Multiple advantages such as energy saving and wider input voltage, works with 110V and 220v.



440V Tested In Production



Smart FAN-Reduce power consumption and the intake of dust and fumes.



Generator Friendly-Suitable for use with generators.



When the **"V.R.D"** mode on the output voltage only 14.5V, it's absolutely safe for welders.



Digital control system-the welding parameter can be control more easier and more precise.

TECHNICAL DATA (subject to change without notice.)

	ES-Stick 160 PFC				ES-Stick 200 PFC			
Power Supply Voltage	90VAC-275VAC				1-230			
Grid frequency	50/60Hz				50/60Hz			
	1-110/120/130±10%		1-220/230/240±10%		1-110/120/130±10%		1-220/230/240±10%	
Effective Current	10 A	15 A	10 A	14.5 A	13 A	20 A	13 A	19 A
Rated Input Power	1.8kVA	2.6kVA	3.5kVA	5.1kVA	2.2kVA	3.4kVA	4.7kVA	6.8kVA
Rated Input Current	16 A	25 A	16 A	23 A	21 A	31 A	21 A	31 A
	TIG	MMA	TIG	MMA	TIG	MMA	TIG	MMA
Duty Cycle(40℃ 10min)	35% 90 A	35% 90 A	35% 160 A	35% 160 A	35% 110 A	35% 110 A	35% 200 A	35% 200 A
	60% 75 A	60% 75 A	60% 135 A	60% 135 A	60% 90 A	60% 90 A	60% 165 A	60% 165 A
	100% 60 A	100% 60 A	100% 105 A	100% 105 A	100% 70 A	100% 70 A	100% 130 A	100% 135 A
No Load Voltage	14.5(Limited)		14.5(Limited)		14.5(Limited)		14.5(Limited)	
WELDING CURRENT RANGE	10 – 90A		10 – 160A		10 – 110A		10 – 200A	
Efficiency	80%				80%			
Power Factor	0.99				0.99			
Insulation class	H				H			
Protection class	IP 23				IP 23			
Cooling	AF				AF			
Dimensions l x w x h	390 x 146 x 278mm				410 x 146 x 278mm			
Weight	5.0 kg				5.0 kg			
Electrode Diameter	φ 1.6-4.0				φ 1.6-5.0			
Electrode type	6013 7018				6013 7018			
Order information	1.0001.0053(-E)				1.0001.0056(-E)			

User-friendly interface
Versatile
Precise welding quality
/ compact



Applications ✓

- Light fabrication
- Plant construction
- Maintenance service
- Repair and maintenance
- On-site intervention
- Process industry

Control Panel ✓



KEY BENEFITS

- **TIG Mode**-Capable of welding with Lift TIG mode.
- **Extra function**-Adjustable Hot Start/Arc Force,Anti-sticking automatic.
- **Weight**-Reduced weight and size,easy-to-carry.
- **Protections**-Equipped with temperature,voltage and current sensors for high protection.



POWER FACTOR CORRECTION
Power factor more than 0.9 Multiple advantages such as energy saving and wider input voltage,works with 110V and 220v.



Generator Friendly-
Suitable for use with generators.



440V Tested In Production



When the “V.R.D” mode on the output voltage only 14.5V, it's absolutely safe for welders.



Smart FAN-Reduce power consumption and the intake of dust and fumes.



Digital control system-the welding parameter can be control more easier and more precise.

TECHNICAL DATA (subject to change without notice.)

	Stick 160 PFC				Stick 200 PFC			
Power Supply Voltage	90VAC-275VAC				1-230			
Grid frequency	50/60Hz				50/60Hz			
	1-110/120/130±10%		1-220/230/240±10%		1-110/120/130±10%		1-220/230/240±10%	
Effective Current	10 A	15 A	10 A	14.5 A	13 A	20 A	13 A	19 A
Rated Input Power	1.8kVA	2.6kVA	3.5kVA	5.1kVA	2.2kVA	3.4kVA	4.7kVA	6.8kVA
Rated Input Current	16 A	25 A	16 A	23 A	21 A	31 A	21 A	31 A
	TIG	MMA	TIG	MMA	TIG	MMA	TIG	MMA
Duty Cycle(40℃ 10min)	35% 90 A	35% 90 A	35% 160 A	35% 160 A	35% 110 A	35% 110 A	35% 200 A	35% 200 A
	60% 75 A	60% 75 A	60% 135 A	60% 135 A	60% 90 A	60% 90 A	60% 165 A	60% 165 A
	100% 60 A	100% 60 A	100% 105 A	100% 105 A	100% 70 A	100% 70 A	100% 130 A	100% 135 A
No Load Voltage	14.5(Limited)		14.5(Limited)		14.5(Limited)		14.5(Limited)	
WELDING CURRENT RANGE	10 – 90A		10 – 160A		10 – 110A		10 – 200A	
Efficiency	80%				80%			
Power Factor	0.99				0.99			
Insulation class	H				H			
Protection class	IP 23				IP 23			
Cooling	AF				AF			
Dimensions l x w x h	390 x 146 x 278mm				410 x 146 x 278mm			
Weight	5.0 kg				5.0 kg			
Electrode Diameter	φ 1.6-4.0				φ 1.6-5.0			
Electrode type	6013 7018				6013 7018			
Order information	1.0001.0054(-E)				1.0001.0055(-E)			

Professional performance, industrial perfection

Stick 160/200 PFC



User-friendly interface
Versatile
Precise welding quality
/ compact



Professional performance, industrial perfection

Plus-Stick 160/200



Applications ✓

- Light fabrication
- Plant construction
- Maintenance service
- Repair and maintenance
- On-site intervention
- Process industry

Control Panel ✓



KEY BENEFITS

- **TIG Mode**-Capable of welding with Lift TIG mode.
- **Extra function**-Adjustable Hot Start/Arc Force, Anti-sticking automatic.
- **Protections**-Equipped with temperature, voltage and current sensors for high protection.
- **Digital display**-Digital control of all the welding parameters, Easy to understand graphic panels.
- **Weight**-Reduced weight and size, easy-to-carry.



Generator Friendly-
Suitable for use with generators
about 7kw.



440V Tested In Production



Heavy Duty Cycle 60%



Standard single phase **1-230V**
50/60Hz power supply.



Digital control system-the welding
parameter can be control more easier
and more precise.



When the **"V.R.D"** mode on the
output voltage only 14.5V, it's
absolutely safe for welders.



Smart FAN-Reduce power consumption and the intake of dust and fumes.

TECHNICAL DATA (subject to change without notice.)

	Plus-Stick 160		Plus-Stick 200	
Power Supply Voltage	1-230		1-230	
Grid frequency	50/60Hz		50/60Hz	
Effective Current	MMA 28 A	LIFT 19 A	MMA 36 A	LIFT 25 A
Rated Input Power	8.2kVA		6.8kVA	
Rated Input Current	36 A		47 A	
Duty Cycle(40°C 10min)	25% 160 A		25% 200 A	
	60% 160 A		60% 200 A	
	100% 125 A		100% 155 A	
No Load Voltage	62		61	
WELDING CURRENT RANGE	10 – 160A		10 – 200A	
Efficiency	85%		85%	
Power Factor	0.7		0.7	
Insulation class	H		H	
Protection class	IP 23		IP 23	
Cooling	AF		AF	
Dimensions l x w x h	340 x 146 x 278mm		370 x 146 x 278mm	
Weight	5.0 kg		6.2 kg	
Electrode Diameter	φ 1.6-4.0		φ 1.6-5.0	
Electrode type	6013 7018		6013 7018	
Order information	1.0001.0249(-E)		1.0001.0251(-E)	

PERFECT IGNITION RESPONSE

/ No sticking
/ No arc break



Applications ✓

- Heavy fabrication
- Plant construction
- Pressure vessels
- Nuclear power station
- Shipbuilding
- Hardfacing
- Process industry

Control Panel ✓



KEY BENEFITS

- **TIG Mode**-Possibility of welding with TIG mode.
- **Extra function**-Adjustable Hot Start/Arc Force, Anti-sticking automatic.
- **Digital display**-Digital control of all the welding parameters, Easy to understand graphic panels.
- **Protections**-Equipped with temperature, voltage and current sensors for high protection.
- **Electrodes diameter**-from 1.6 to 5.0mm.



When you have a wrong grid voltage, the machine will stop work immediately and the key core will be protected from damage especially the IGBT.



Smart FAN-Reduce power consumption and the intake of dust and fumes.



Excellent performance on 60% electrodes.



Generator Friendly-Suitable for use with generators.



Standard 1-230V 50/60Hz power supply.



When the "V.R.D" mode on the output voltage only 14.5V, it's absolutely safe for welders.



440V Tested In Production



Heavy Duty Cycle 60%



Digital control system-the welding parameter can be control more easier and more precise.

TECHNICAL DATA (subject to change without notice.)

	Plus-Stick 250-1		Plus-Stick 250-1 (CEL)	
Power Supply Voltage	1-230		1-230	
Grid frequency	50/60Hz		50/60Hz	
Effective Current	MMA 16 A	LIFT 12 A	MMA 16 A	LIFT 12 A
Rated Input Power	8.5kVA	6.3kVA	8.5kVA	6.3kVA
Rated Input Current	20 A	16 A	20 A	16 A
Duty Cycle(40°C 10min)	60% 250 A		60% 250 A	
	100% 200A		100% 200A	
No Load Voltage	64		90	
WELDING CURRENT RANGE	10 – 250A		10 – 250A	
Efficiency	85%		85%	
Power Factor	0.70		0.70	
Insulation class	H		H	
Protection class	IP 23		IP 23	
Cooling	AF		AF	
Dimensions l x w x h	290 x 135 x 220mm		290 x 135 x 220mm	
Weight	4.5 kg		4.5 kg	
Electrode Diameter	φ 1.6-5.0		φ 1.6-5.0	
Electrode type	6013 7018		6013 7018	
Order information			1.0001.2254(-E)	

Professional welder built for tough working conditions

Plus-Stick 250-1 (CEL)





Applications ✓

- Heavy fabrication
- Plant construction
- Pressure vessels
- Nuclear power station
- Shipbuilding
- Hardfacing
- Process industry

Control Panel ✓



KEY BENEFITS

- **TIG Mode**-Possibility of welding with TIG mode.
- **Extra function**-Adjustable Hot Start/Arc Force,Anti-sticking automatic.
- **Digital display**-Digital control of all the welding parameters,Easy to understand graphic panels.
- **Protections**-Equipped with temperature,voltage and current sensors for high protection.
- **Eletrocles diameter**-from 1.6 to 5.0mm.



When you have a wrong grid voltage, the machine will stop work immediately and the key core will be protected from damage especially the IGBT.



Smart FAN-Reduce power consumption and the intake of dust and fumes.



Excellent performance on 60% electrodes.



Generator Frienly-Suitable for use with generators .



Standard 3-380V 50/60Hz power supply.



When the "V.R.D" mode on the output voltage only 14.5V, it's absolutely safe for welders.



550V Tested In Production



Heavy Duty Cycle 60%



Digital control system-the welding parameter can be control more easier and more precise.

TECHNICAL DATA(subject to change without notice.)

	Plus-Stick 250-3		Plus-Stick 250-3(CEL)	
Power Supply Voltage	3-400		3-400	
Grid frequency	50/60Hz		50/60Hz	
Effective Current	MMA 16 A	LIFT 12 A	MMA 16 A	LIFT 12 A
Rated Input Power	8.5kVA		8.5kVA	
Rated Input Current	20 A		20 A	
Duty Cycle(40°C 10min)	60% 250 A		60% 250 A	
	100% 200A		100% 200A	
No Load Voltage	64		90	
WELDING CURRENT RANGE	10 – 250A		10 – 250A	
Efficiency	85%		85%	
Power Factor	0.70		0.70	
Insulation class	H		H	
Protection class	IP 23		IP 23	
Cooling	AF		AF	
Dimensions l x w x h	290 x 135 x 220mm		290 x 135 x 220mm	
Weight	4.5 kg		4.5 kg	
Electrode Diameter	φ 1.6-5.0		φ 1.6-5.0	
Electrode type	6013 7018		6013 7018	
Order information	1.000Y.0252-EJ			

Professional welder built for tough working conditions

Plus-Stick 250-3(CEL)



PERFECT IGNITION RESPONSE

/ No sticking
/ No arc break



Professional welder built for tough working conditions

Plus-Stick 250 3-220V (CEL)



Applications ✓

- Heavy fabrication
- Plant construction
- Pressure vessels
- Nuclear power station
- Shipbuilding
- Hardfacing
- Process industry

Control Panel ✓



KEY BENEFITS

- **TIG Mode**-Possibility of welding with TIG mode.
- **Extra function**-Adjustable Hot Start/Arc Force, Anti-sticking automatic.
- **Digital display**-Digital control of all the welding parameters, Easy to understand graphic panels.
- **Protections**-Equipped with temperature, voltage and current sensors for high protection.
- **Electrodes diameter**-from 1.6 to 5.0mm.



When you have a wrong grid voltage, the machine will stop work immediately and the key core will be protected from damage especially the IGBT.



Smart FAN-Reduce power consumption and the intake of dust and fumes.



Excellent performance on 60% electrodes.



Generator Friendly-Suitable for use with generators.



Dual voltage power supply 1/3-220V 50/60Hz.



When the "V.R.D" mode on the output voltage only 14.5V, it's absolutely safe for welders.



550V Tested In Production



Heavy Duty Cycle 60%



Digital control system-the welding parameter can be control more easier and more precise.

TECHNICAL DATA (subject to change without notice.)

	Plus-Stick 250 3-220V		Plus-Stick 250 3-220V (CEL)	
Power Supply Voltage	3-230		3-230	
Grid frequency	50/60Hz		50/60Hz	
Effective Current	MMA 27.9 A	LIFT 22.5 A	MMA 28 A	LIFT 23 A
Rated Input Power	8.5kVA	6.3kVA	8.5kVA	6.3kVA
Rated Input Current	36 A	29 A	36.5 A	30 A
Duty Cycle(40°C 10min)	60% 250 A		60% 250 A	
	100% 200A		100% 200A	
No Load Voltage	64		90	
WELDING CURRENT RANGE	10 – 250A		10 – 250A	
Efficiency	85%		85%	
Power Factor	0.70		0.70	
Insulation class	H		H	
Protection class	IP 23		IP 23	
Cooling	AF		AF	
Dimensions l x w x h	290 x 135 x 220mm		290 x 135 x 220mm	
Weight	10 kg		10 kg	
Electrode Diameter	φ 1.6-5.0		φ 1.6-5.0	
Electrode type	6013 7018		6013 7018	
Order information				

PERFECT IGNITION RESPONSE

/ No sticking
/ No arc break



Professional welder built for tough working conditions

Stick 320 MV



Applications ✓

- Heavy fabrication
- Plant construction
- Pressure vessels
- Nuclear power station
- Shipbuilding
- Hardfacing
- Process industry

Control Panel ✓



KEY BENEFITS

- **TIG Mode**-Possibility of welding with TIG mode.
- **Digital display**-Digital control of all the welding parameters, Easy to understand graphic panels.
- **Eletrocles diameter**-from 1.6 to 5.0mm.
- **Extra function**-Adjustable Hot Start/Arc Force, Anti-sticking automatic.
- **Protections**-Equipped with temperature, voltage and current sensors for high protection.



Smart FAN-Reduce power consumption and the intake of dust and fumes.



Multi voltage input supply-flexibility to use any place.



Excellent performance on 60% electrodes.



When the "V.R.D" mode on the output voltage only 14.5V, it's absolutely safe for welders.



Zero V/C Switch



Generator Friendly-Suitable for use with generators about .



Digital control system-the welding parameter can be control more easier and more precise.

TECHNICAL DATA (subject to change without notice.)

	Stick 320 MV											
Power Supply Voltage Grid frequency	110VAC-460VAC 50/60Hz											
	1-110		1-230		1-400		3-230		3-400		3-460	
	TIG	MMA	TIG	MMA	TIG	MMA	TIG	MMA	TIG	MMA	TIG	MMA
Effective Current	20A	17 A	21 A	22 A	14 A	19 A	14 A	15 A	8 A	12 A	8 A	10 A
Rated Input Power	3.1kVA	3.3kVA	6.3kVA	6.8kVA	8.6kVA	12.0kVA	8.7kVA	9.2kVA	8.7kVA	11.9kVA	8.7kVA	11.9kVA
Rated Input Current	26 A	30 A	29 A	32 A	23 A	32 A	23 A	25 A	13 A	19 A	12 A	26 A
Duty Cycle(40°C 10min)	60% 150 A	30% 120 A	50% 250 A	45% 200 A	35% 320 A		35% 250 A		40% 320 A			
		60% 85 A	60% 230 A	60% 175 A	60% 245 A		60% 195 A		60% 260 A			
	100% 120 A	100% 70 A	100% 180 A	100% 135 A	100% 190 A		100% 150 A		100% 200 A			
WELDING CURRENT RANGE	10 – 150A	10 – 120A	10 – 150A	10 – 200A	10 – 320A				10 – 250A		10 – 320A	
No Load Voltage	67											
Efficiency	85%											
Power Factor	0.99						0.95					
Insulation class	H											
Protection class	IP 23											
Cooling	AF											
Dimensions l x w x h	492 x 189 x 352mm											
Weight	15 kg											
Electrode Diameter	φ 1.6-6.0											
Electrode type	6013 7018											
Order information	1.0001.0270(-E)											

PERFECT IGNITION RESPONSE

/ No sticking
/ No arc break



Applications ✓

- Pipeline construction
- Heavy industrial fabrication
- Plant construction
- Pressure vessels
- Nuclear power station
- Shipbuilding
- Hardfacing
- Process industry
- Arc-Air gouging

Control Panel ✓



KEY BENEFITS

- **TIG Mode**-Possibility of welding with TIG mode.
- **Digital display**-Digital control of all the welding parameters, Easy to understand graphic panels.
- **Eletrocles diameter**-from 1.6 to 5.0mm.
- **Extra function**-Adjustable Hot Start/Arc Force, Anti-sticking automatic.
- **Protections**-Equipped with temperature, voltage and current sensors for high protection.
- **Arc goging capability.**



When you have a wrong grid voltage, the machine will stop work immediately and the key core will be protected from damage especially the IGBT.



Smart FAN-Reduce power consumption and the intake of dust and fumes.



Standard tripple phase
3-400V 50/60Hz power
supply.



Excellent performance on
60% electrodes.



When the "V.R.D" mode on the
output voltage only 14.5V, it's
absolutely safe for welders.



Zero V/C Switch



Heavy Duty Cycle 60%
for industrial use.



Digital control system-the
welding parameter can be
control more easier and
more precise.



Generator Frienly-
Suitable for use with
generators .



550V Tested In Production



IGBT Module

TECHNICAL DATA (subject to change without notice.)

	Pro-Stick 320		Pro-Stick 400		Pro-Stick 500		Pro-Stick 630	
Power Supply Voltage	3-400		3-400		3-400		3-400	
Grid frequency	50/60Hz		50/60Hz		50/60Hz		50/60Hz	
	MMA	LIFT	MMA	LIFT	MMA	LIFT	MMA	LIFT
Effective Current	18 A	15 A	27 A	21 A	35 A	28 A	48 A	39 A
Rated Input Power	11.5kVA	8.5kVA	17kVA	12.5kVA	23kVA	17.4kVA	32kVA	25.5kVA
Rated Input Current	23 A	19 A	35 A	27 A	45 A	36 A	62 A	50A
Duty Cycle(40°C 10min)	60% 320 A		60% 400 A		60% 500 A		60% 630 A	
	100% 250 A		100% 325 A		100% 400 A		100% 490 A	
No Load Voltage	60	22.5	80	22.5	80	22.5	90	22.5
WELDING CURRENT RANGE	10 ~ 320A		20 ~ 400A		20 ~ 500A		20 ~ 630A	
Efficiency	80%		80%		80%		80%	
Power Factor	0.70		0.70		0.70		0.70	
Insulation class	H		H		H		H	
Protection class	IP 23		IP 23		IP 23		IP 23	
Cooling	AF		AF		AF		AF	
Dimensions l x w x h	485 x 240 x 445mm		485 x 240 x 445mm		550 x 240 x 445mm		550 x 240 x 445mm	
Weight	17.6 kg		19 kg		30.3 kg		33.5 kg	
Electrode Diameter	φ 1.6-6.0		φ 1.6-6.0		φ 1.6-6.0		φ 1.6-6.0	
Electrode type	6013 7018		6010 6011 / 6013 7018		6010 6011 / 6013 7018		6010 6011 / 6013 7018	
Order information	1.0001.0260(-E)		1.0001.0265(-E)		1.0001.0280(-E)		1.0001.0290(-E)	

Rugged, conventional welding rectifier with excellent arc characteristics

Pro-Stick 320/400/500/630



TIG^{GTAW} INVERTER



Precise ignition and smooth, stable current flow are the baseline for every model in our TIG welding equipment range.

Ease of use, robustness, power and mobility are the properties that the devices in the GTAW series feature.

AC/DC Series are available for welding aluminium in all performance levels.

Pro-GTAW series are particularly impressive with their wide range of uses, an optimum accessories interface and high-quality components that enable welding results.

Gas Tungsten Arc Welding



TIG Series



Excellent HF arc ignition; stable, focused and fast arc

GTAW 160/200



Applications ✓

- Light industry
- Motorsportss
- Maintenance and repair
- Process and food industry
- Intervention service

Control Panel ✓



KEY BENEFITS

- **Up/Down Slope**-Up/Down slope time is selectable.
- **Pre/Post Flow**-Pre/Post flow time is selectable.
- **2T/4T Mode**-Possibility of welding with 2T/4T mode.
- **Weight**-Reduced weight and size, easy-to-carry.
- **Protections**-Equipped with temperature, voltage and current sensors for high protection.
- **Spot Time**-Unique spot time/pulse time function selectable.



Generator Frierly-Suitable
for use with generators .



440V Tested In Production



HF Easy ARC Striking



**Standard single phase 1-230V
50/60Hz power supply .**



Smart FAN-Reduce power consuncption and the intake of dust and fames .

TECHNICAL DATA (subject to change without notice.)

	GTAW 160		GTAW 200	
Power Supply Voltage	1-230		1-230	
Grid frequency	50/60Hz		50/60Hz	
Effective Current	TIG 18 A	MMA 25 A	TIG 20 A	MMA 26 A
Rated Input Power	3.4kVA	4.9kVA	4.9kVA	6.2kVA
Rated Input Current	25 A	35 A	34 A	44 A
Duty Cycle(40°C 10min)	50% 160 A		35% 200 A	
	60% 150 A		60% 125 A	
	100% 115 A		100% 100 A	
No Load Voltage	85		85	
WELDING CURRENT RANGE	5-160A		5 ~ 200A	
Efficiency	85%		85%	
Up/Down Slope	0-10		0-10	
Power Factor	0.75		0.75	
Insulation class	H		H	
Protection class	IP 23		IP 23	
Cooling	AF		AF	
Dimensions l x w x h	340 x 146 x 278mm		370 x 146 x 278mm	
Weight	7.0 kg		7.0 kg	
Electrode Diameter	φ 1.6-4.0		φ 1.6-5.0	
Electrode type	6013 7018		6013 7018	
Order information	1.0001.0302(-E)		1.0001.0305(-E)	

**PERFECT
IGNITION
RESPONSE**
/ ARC stable
/ ARC focused



Excellent HF arc ignition; stable, focused and fast arc

ES-GTAW 160P/200P



Applications ✓

- Light industry
- Motorsportss
- Maintenance and repair
- Process and food industry
- Intervention service

Control Panel ✓



KEY BENEFITS

- **Protections**-Equipped with temperature, voltage and current sensors for high protection.
- **Pulse**-Perfect performance on ultra thin surfaces with no deformation.
- **Spot Time**-Unique spot time/pulse time function selectable.



**Rotentiometer Remote
Control Torch**



**Up/Down Remote
Control Torch**



Foot control contractor
on/off and current control with
8-pin male plug and any length
ceable or wireless control .



HF Easy ARC Striking



Pulse



Generator Frienly-
Suitable for use with
generators .



440V Tested In Production



**Standard single phase 1-230V
50/60Hz power supply.**



Digital control system-the
welding parameter can be
control more easier and
more precise .



Smart FAN-Reduce power consuncption and the intake of dust and fames.

TECHNICAL DATA (subject to change without notice.)

	ES-GTAW 160P		ES-GTAW 200P	
Power Supply Voltage	1-230		1-230	
Grid frequency	50/60Hz		50/60Hz	
	TIG	MMA	TIG	MMA
Effective Current	18 A	25 A	20 A	26 A
Rated Input Power	3.4KVA	4.9KVA	4.9KVA	6.2KVA
Rated Input Current	25 A	35 A	34 A	44 A
Duty Cycle(40°C 10min)	50% 160 A		35% 200 A	
	60% 150 A		60% 125 A	
	100% 115 A		100% 100 A	
No Load Voltage	85		85	
WELDING CURRENT RANGE	5-160A		5-200A	
Efficiency	85%		85%	
Up/Down Slope	0-10		0-10	
Pre/Post Flow	0-2/0-10		0-2/0-10	
Pulse Freq.	0.5-200		0.5-200	
Pulse Width Range	5-95		5-95	
Power Factor	0.75		0.75	
Insulation class	H		H	
Protection class	IP 23		IP 23	
Cooling	AF		AF	
Dimensions l x w x h	410 x 146 x 278mm		410 x 146 x 278mm	
Weight	7.0 kg		7.0 kg	
Electrode Diameter	φ 1.6-4.0		φ 1.6-5.0	
Electrode type	6013 7018		6013 7018	
Order information				



Excellent HF arc ignition; stable, focused and fast arc

GTAW 160P/200P



Applications ✓

- Light industry
- Motorsportss
- Maintenance and repair
- Process and food industry
- Intervention service

Control Panel ✓



KEY BENEFITS

- **Protections**-Equipped with temperature, voltage and current sensors for high protection.
- **Pulse**-Perfect performance on ultra thin surfaces with no deformation.
- **Spot Time**-Unique spot time/pulse time function selectable.



Rotentiometer Remote Control Torch



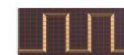
Up/Down Remote Control Torch



Foot control contractor on/off and current control with 8-pin male plug and any length ceable or wireless control .



HF Easy ARC Striking



Pulse



Generator Friendly- Suitable for use with generators .



440V Tested In Production



Standard single phase 1-230V 50/60Hz power supply.



Digital control system-the welding parameter can be control more easier and more precise .



Smart FAN-Reduce power consuncption and the intake of dust and fames.

TECHNICAL DATA (subject to change without notice.)

	GTAW 160P		GTAW 200P	
Power Supply Voltage	1-230		1-230	
Grid frequency	50/60Hz		50/60Hz	
	TIG	MMA	TIG	MMA
Effective Current	18 A	25 A	20 A	26 A
Rated Input Power	3.4KVA	4.9KVA	4.9KVA	6.2KVA
Rated Input Current	25 A	35 A	34 A	44 A
Duty Cycle(40°C 10min)	50% 160 A		35% 200 A	
	60% 150 A		60% 125 A	
	100% 115 A		100% 100 A	
No Load Voltage	85		85	
WELDING CURRENT RANGE	5-160A		5 - 200A	
Efficiency	85%		85%	
Up/Down Slope	0-10		0-10	
Pre/Post Flow	0-2/0-10		0-2/0-10	
Pulse Fre.	0.5-200		0.5-200	
Pulse Width Range	5-95		5-95	
Power Factor	0.75		0.75	
Insulation class	H		H	
Protection class	IP 23		IP 23	
Cooling	AF		AF	
Dimensions l x w x h	410 x 146 x 278mm		410 x 146 x 278mm	
Weight	7.0 kg		7.0 kg	
Electrode Diameter	φ 1.6-4.0		φ 1.6-5.0	
Electrode type	6013 7018		6013 7018	
Order information	1.0001.0308(-E)		1.0001.0310(-E)	



Precise, accurate, infinite amperage control and heat output

GTAW 160P/200P Cold ARC



Applications ✓

- Repair and Maintenance
- Garage/job shops
- Agricultural Equipment
- Light Industrial and General Fabrication

Control Panel ✓



KEY BENEFITS

- Protections**-Equipped with temperature, voltage and current sensors for high protection.
- Pulse**-Perfect performance on ultra thin surfaces with no deformation.
- Spot Time**-Unique spot time/pulse time function selectable.
- Up/Down Slope**-Up/Down slope time is selectable.



**Rotentiometer Remote
Control Torch**



**Up/Down Remote
Control Torch**



Foot control contractor
on/off and current control with
8-pin male plug and any length
ceable or wireless control .



HF Easy ARC Striking



Pulse



Generator Friendly-
Suitable for use with
generators .



440V Tested In Production



**Standard single phase 1-230V
50/60Hz power supply .**



Digital control system-the
welding parameter can be
control more easier and
more precise .



Smart FAN-Reduce power consumption and the intake of dust and fumes .

TECHNICAL DATA (subject to change without notice.)

	GTAW 160P Cold ARC		GTAW 200P Cold ARC	
Power Supply Voltage	1-230		1-230	
Grid frequency	50/60Hz		50/60Hz	
Effective Current	TIG 18 A	MMA 25 A	TIG 20 A	MMA 26 A
Rated Input Power	3.4KVA	4.9KVA	4.9KVA	6.2KVA
Rated Input Current	25 A	35 A	34 A	44 A
Duty Cycle(40°C 10min)	50% 160 A		35% 200 A	
	60% 150 A		60% 125 A	
	100% 115 A		100% 100 A	
No Load Voltage	85		85	
WELDING CURRENT RANGE	5-160A		5-200A	
Efficiency	85%		85%	
Up/Down Slope	0-10		0-10	
Pre/Post Flow	0-2/0-10		0-2/0-10	
Pulse Freq.	0.5-200		0.5-200	
Pulse Width Range	5-95		5-95	
Power Factor	0.75		0.75	
Insulation class	H		H	
Protection class	IP 23		IP 23	
Cooling	AF		AF	
Dimensions l x w x h	410 x 146 x 278mm		410 x 146 x 278mm	
Weight	7.0 kg		7.0 kg	
Electrode Diameter	φ 1.6-4.0		φ 1.6-5.0	
Electrode type	6013 7018		6013 7018	
Order information	1.0001.0327(-E)		1.0001.0328(-E)	



Precise, accurate, infinite amperage control and heat output

GTAW 200P PFC



Applications ✓

- Light industry
- Motorsportss
- Maintenance and repair
- Process and food industry
- Intervention service

Control Panel ✓



KEY BENEFITS

- **Protections**-Equipped with temperature, voltage and current sensors for high protection.
- **Pulse**-Perfect performance on ultra thin surfaces with no deformation.
- **Pre/Post Flow**-Pre/Post flow time are selectable.
- **Spot time**-Unique spot time/pulse time function selectable.



POWER FACTOR CORRECTION
Power factor more than 0.9 Multiple advantages such as energy saving and wider input voltage, works with 110V and 220v .



Rotentiometer Remote Control Torch



Up/Down Remote Control Torch



HF Easy ARC Striking



Pulse



Generator Friendly-
Suitable for use with generators .



440V Tested In Production



Foot control contractor
on/off and current control with 8-pin male plug and any length ceable or wireless control .



Digital control system-the
welding parameter can be control more easier and more precise .



Standard single phase 1-230V
50/60Hz power supply .



Smart FAN-Reduce power comsuncption and the intake
of dust and fames .

TECHNICAL DATA (subject to change without notice.)

	GTAW 200P PFC			
	90V-275V			
Power Supply Voltage	1-110		1-230	
Grid frequency	50/60Hz			
Effective Current	TIG 24 A	MMA 30 A	TIG 15 A	MMA 18 A
Rated Input Power	2.7KVA	4.1KVA	6.3KVA	4.6KVA
Rated Input Current	25 A	39 A	21 A	32 A
Duty Cycle(40°C 10min)	90% 130 A	60% 130 A	50% 200 A	30% 200 A
			60% 180 A	60% 145 A
	100% 125 A	100% 105 A	100% 140 A	100% 135 A
No Load Voltage	66			
WELDING CURRENT RANGE	50-130A		50-200A	
Efficiency	85%			
Up/Down Slope	0-10			
Pre/Post Flow	0-2/0-10			
Pulse Freq.	0.5-200			
Pulse Width Range	5-95			
Power Factor	0.99			
Insulation class	H			
Protection class	IP 23			
Cooling	AF			
Dimensions l x w x h	465 x 146 x 278mm			
Weight	9.0 kg			
Electrode Diameter	φ 1.6-5.0			
Electrode type	6013 7818			
Order information	1.0001.0315(-E)			



Precise, accurate, infinite amperage control and heat output

Pro-GTAW 250P-1 (CEL)



Applications ✓

- Light industry
- Motorsportss
- Maintenance and repair
- Process and food industry
- Intervention service

Control Panel ✓



KEY BENEFITS

- **TIG Mode**-Possibility of welding Lift TIG mode.
- **Extra function**-Adjustable Hot Start/Arc Force, Anti-sticking automatic.
- **Weight**-Reduced weight and size, easy-to-carry.
- **Protections**-Equipped with temperature, voltage and current sensors for high protections.

 **Rotenometer Remote Control Torch**

 **Up/Down Remote Control Torch**

 **Foot control contractor** on/off and current control with 8-pin male plug and any length cable or wireless control.

 **HF Easy ARC Striking**

 **Pulse**

 **Digital control system**-the welding parameter can be control more easier and more precise.

 **Generator Frierly**-Suitable for use with generators.

 **440V Tested In Production**

 **IGBT Module**

 **Smart FAN**-Reduce power consumption and the intake of dust and fumes.

 **Standard single phase** 1-230V 50/60Hz power supply.

 **Heavy Duty Cycle** 60%



When you have a wrong grid voltage, the machine will stop work immediately and the key core will be protected from damage especially the **IGBT**.

TECHNICAL DATA (subject to change without notice.)

	Pro-GTAW 250P-1			Pro-GTAW 250P-1 (CEL)		
Power Supply Voltage	1-230			1-230		
Grid frequency	50/60Hz			50/60Hz		
Effective Current	TIG		MMA	TIG		MMA
	25.3 A		3.5 A	25 A		33 A
Rated Input Power	6.0kVA		8.6kVA	6.0kVA		8.6kVA
Rated Input Current	40 A		53 A	40 A		52 A
Duty Cycle(40°C 10min)	60% 250 A			60% 250 A		
	100% 195 A			100% 195 A		
No Load Voltage	70			90		
WELDING CURRENT RANGE	5-250A			5-250A		
Efficiency	85%			85%		
Up/Down Slope	0-10			0-10		
PrePost Flow	0-2/0-10			0-2/0-10		
Pulse Freq.	0.5-250			0.5-250		
Pulse Width Range	5%-95%			5%-95%		
Power Factor	0.75			0.75		
Insulation class	H			H		
Protection class	IP 23			IP 23		
Cooling	AF			AF		
Dimensions l x w x h	457 x 189 x 350mm			457 x 189 x 350mm		
Weight	10.5 kg			10.5 kg		
Electrode type	6013 7018			6013 7018		
Order information	1.0001.0322(-E)					



Precise, accurate, infinite amperage control and heat output

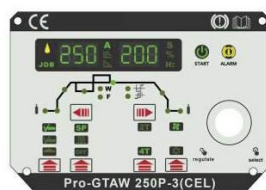
Pro-GTAW 250P-3 (CEL)



Applications ✓

- Light industry
- Motorsportss
- Maintenance and repair
- Process and food industry
- Intervention service

Control Panel ✓



KEY BENEFITS

- TIG Mode**-Possibility of welding Lift TIG mode.
- Extra function**-Adjustable Hot Start/Arc Force, Anti-sticking automatic.
- Weight**-Reduced weight and size, easy-to-carry.
- Protections**-Equipped with temperature, voltage and current sensors for hignprotections.



**Rotenometer Remote
Control Torch**



**Up/Down Remote
Control Torch**



Foot control contractor
on/off and current control with
8-pin male plug and any length
ceable or wireless control .



HF Easy ARC Striking



Pulse



Digital control system-the
welding parameter can be
control more easier and
more precise .



Generator Friendly-
Suitable for use with
generators .



550V Tested In Production



IGBT Module



Smart FAN-Reduce power
consumption and the intake
of dust and fumes .



**Standard tripple phase
3-400V 50/60Hz power
supply .**



Heavy Duty Cycle 60%



When you have a wrong grid voltage, the machine will stop work immediately and the key core will be protected from damage especially the **IGBT** .

TECHNICAL DATA (subject to change without notice.)

	Pro-GTAW 250P-3			Pro-GTAW 250P-3 (CEL)		
Power Supply Voltage	1-230			1-230		
Grid frequency	50/60Hz			50/60Hz		
Effective Current	TIG 12 A		MMA 16 A	TIG 12 A		MMA 16 A
Rated Input Power	6.0kVA		8.6kVA	6.0kVA		8.6kVA
Rated Input Current	15 A		21 A	15 A		21 A
Duty Cycle(40°C 10min)	60% 250 A			60% 250 A		
	100% 195 A			100% 195 A		
No Load Voltage	70			90		
WELDING CURRENT RANGE	5-250A			5-250A		
Efficiency	85%			85%		
Up/Down Slope	0-10			0-10		
Pre/Post Flow	0-2/0-10			0-2/0-10		
Pulse Freq.	0.5-250			0.5-250		
Pulse Width Range	5%-95%			5%-95%		
Power Factor	0.75			0.75		
Insulation class	H			H		
Protection class	IP 23			IP 23		
Cooling	AF			AF		
Dimensions l x w x h	457 x 189 x 350mm			457 x 189 x 350mm		
Weight	10.5 kg			10.5 kg		
Electrode type	6013 7018			6013 7018		
Order information	1.0001.0365(-E)			1.0001.0364(-E)		



Precise, accurate, infinite amperage control and heat output

Pro-GTAW 250P 3-220(CEL)



Applications ✓

- Light industry
- Motorsportss
- Maintenance and repair
- Process and food industry
- Intervention service

Control Panel ✓



KEY BENEFITS

- TIG Mode**-Possibility of welding Lift TIG mode.
- Extra function**-Adjustable Hot Start/Arc Force, Anti-sticking automatic.
- Weight**-Reduced weight and size, easy-to-carry.
- Protections**-Equipped with temperature, voltage and current sensors for high protections.



**Rotenimeter Remote
Control Torch**



**Up/Down Remote
Control Torch**



Foot control contractor
on/off and current control with
8-pin male plug and any length
ceable or wireless control .



HF Easy ARC Striking



Pulse



**Generator Frienly-
Suitable for use with
generators .**



550V Tested In Production



IGBT Module



Smart FAN-Reduce power
consumption and the intake
of dust and fumes .



**Dual voltage power
supply 1/3-220V 50/60Hz.**



Heavy Duty Cycle 60%



When you have a wrong grid voltage, the machine will stop work immediately and the key core will be protected from damage especially the **IGBT** .

TECHNICAL DATA (subject to change without notice.)

	Pro-GTAW 250P 3-220		Pro-GTAW 250P 3-220(CEL)	
Power Supply Voltage	3-220±10%		3-220±10%	
Grid frequency	50/60Hz		50/60Hz	
Effective Current	TIG 20 A	MMA 27.9 A	TIG 20 A	MMA 28 A
Rated Input Power	6.0kVA	8.6kVA	6.0kVA	8.6kVA
Rated Input Current	26 A	36 A	26 A	36 A
Duty Cycle(40°C 10min)	60% 250 A		60% 250 A	
	100% 195 A		100% 195 A	
No Load Voltage	70		90	
WELDING CURRENT RANGE	5-250A		5-250A	
Efficiency	85%		85%	
Up/Down Slope	0-10		0-10	
Pre/Post Flow	0-2/0-10		0-2/0-10	
Pulse Freq.	0.5-250		0.5-250	
Pulse Width Range	5%-95%		5%-95%	
Power Factor	0.75		0.75	
Insulation class	H		H	
Protection class	IP 23		IP 23	
Cooling	AF		AF	
Dimensions l x w x h	457 x 189 x 350mm		457 x 189 x 350mm	
Weight	10.5 kg		10.5 kg	
Electrode type	6013 7018		6013 7018	
Order information	1.0001.0365(-E)		1.0001.0364(-E)	



Light Industrial Applications ✓

- Heavy industrial applications
- Industrial plants
- Maintenance and repair
- Pipe construction
- Process and food industry
- Metal construction
- Aerospace industry
- Nuclear industry
- Chemical industry

Control Panel ✓



KEY BENEFITS

- **TIG Mode**-Possibility of welding Lift TIG mode.
- **Extra function**-Adjustable Hot Start/Arc Force,Anti-sticking automatic.
- **Protections**-Equipped with temperature,voltage and current sensors for highprotections.



**Rotenometer Remote
Control Torch**



**Up/Down Remote
Control Torch**



Foot control contractor
on/off and current control with
8-pin male plug and any length
cable or wireless control .



HF Easy ARC Striking



Pulse



Generator Friendly-
Suitable for use with
generators .



550V Tested In Production



Digital control system-the
welding parameter can be
control more easier and
more precise .



Smart FAN-Reduce power
consumption and the intake
of dust and fumes .



Standard tripple phase
3-400V 50/60Hz power
supply .



IGBT Module



Heavy Duty Cycle 60%



When you have a wrong grid voltage, the machine will stop work immediately and the key core will be protected from damage especially the **IGBT** .

TECHNICAL DATA (subject to change without notice.)

	Pro-GTAW 320P	Pro-GTAW 400P	Pro-GTAW 500P
Power Supply Voltage	3-400	3-400	3-400
Grid frequency	50/60Hz	50/60Hz	50/60Hz
Effective Current	TIG 15 A MMA 18 A	TIG 20 A MMA 24 A	TIG 27 A MMA 34 A
Rated Input Power	9.5kVA	12kVA	22.3kVA
Rated Input Current	19 A	25.5 A	35 A
Duty Cycle(40°C 10min)	60% 320 A	60% 400 A	60% 500 A
	100% 2505 A	100% 310 A	100% 390 A
No Load Voltage	70	75	70
WELDING CURRENT RANGE	5-320A	5-400A	5-500A
Efficiency	85%	85%	85%
Up/Down Slope	0-10	0-10	0-10
Pre/Post Flow	0-2/0-10	0-2/0-10	0-2/0-10
Pulse Freq.	0.5-250	0.5-250	0.5-250
Pulse Width Range	5%-95%	5%-95%	5%-95%
Power Factor	0.75	0.75	0.75
Insulation class	H	H	H
Protection class	IP 23	IP 23	IP 23
Cooling	AF	AF	AF
Dimensions l x w x h	530 x 240 x 445mm	530 x 240 x 445mm	570 x 240 x 445mm
Weight	20 kg	23.5 kg	30.5 kg
Electrode type	6013 7018	6013 7018	6013 7018
Order information	1.0001.0409(-E)	1.0001.0410(-E)	1.0001.0412(-E)

Excellent HF arc ignition; stable,focused and fast arc

Pro-GTAW 320P/400P/500P





Precise, accurate, infinite amperage control and heat output

Sim-GTAW 200P AC/DC



Applications ✓

- Light industry
- Motorsportss
- Maintenance and repair
- Process and food industry
- Intervention service

Control Panel ✓



KEY BENEFITS

■ **AC Balance Control**-AC balance control monitors the oxide and helps better cleaning during aluminum welding.

■ **Protections**-Equipped with temperature, voltage and current sensors for high protection.



Rotenometer Remote Control Torch



Up/Down Remote Control Torch



Generator Friendly-Suitable for use with generators .



HF Easy ARC Striking



440V Tested In Production



Digital control system-the welding parameter can be control more easier and more precise .



Foot control contractor on/off and current control with 8-pin male plug and any length ceable or wireless control .



Standard single phase 1-230V 50/60Hz power supply.



Smart FAN-Reduce power consuncption and the intake of dust and fames .

TECHNICAL DATA (subject to change without notice.)

	Sim-GTAW 200P AC/DC		
Power Supply Voltage	1-230		
Frequency	50/60Hz		
	AC/TIG	DC/TIG	MMA
Effective Current	18 A	18 A	25 A
Rated Input Power	4.5kVA	3.9kVA	5.7kVA
Rated Input Current	30 A	28 A	40 A
Duty Cycle(40°C 10min)	35% 200 A	40% 170 A	
	60% 155 A	60% 140 A	
	100% 120 A	100% 110 A	
No Load Voltage	53		
WELDING CURRENT RANGE	10-200 A	10-170 A	
Efficiency	85%		
Up/Down Slope	0-10		
Pre/Post Flow	0-10		
Pulse Freq.	0.5-200		
Pulse Width Range	5-95		
AC Frequency	60Hz		
AC Balance(%)	15-50		
Insulation class	H		
Protection class	IP 23		
Cooling	AF		
Dimensions l x w x h	410 x 146 x 278mm		
Weight	7.0 kg		
Electrode type	6013 7018		
Order information	1.0001.0350(-E)		



Excellent HF arc ignition; stable, focused and fast arc

ES-GTAW 200P AC/DC



Applications ✓

- Light industry
- Motorsportss
- Maintenance and repair
- Process and food industry
- Intervention service

Control Panel ✓



KEY BENEFITS

- **AC Balance Control**-AC balance control monitors the oxide and helps better cleaning during aluminum welding.
- **Waveforms**-Square wave, sine wave, are selectable.
- **Accessories**-Remote foot control; Up/Down remote torch; Remote control torch.
- **Protections**-Equipped with temperature, voltage and current sensors for high protection.
- **Spot time**-Unique spot time/pulse time function selectable.



**Rotentiometer Remote
Control Torch**



**Up/Down Remote
Control Torch**



Foot control contractor
on/off and current control with
8-pin male plug and any length
ceable or wireless control .



HF Easy ARC Striking



Pulse



Generator Frienly-
Suitable for use with
generators .



440V Tested In Production



Standard single phase
1-230V 50/60Hz power
supply.



Smart FAN-Reduce power comsuncption and the intake of dust and fames .

TECHNICAL DATA (subject to change without notice.)

	ES-GTAW 200P AC/DC			
Power Supply Voltage	1-230			
Frequency	50/60Hz			
Rated Input Power	TIG 4.3kVA		MMA 6.2kVA	
Effective Current	AC/TIG 20 A	DC/TIG 21 A	AC/MMA 26 A	DC/MMA 29 A
Rated Input Current	34 A	35 A	44 A	48 A
Duty Cycle(40°C 10min)	35% 200 A			
	60% 155 A			
	100% 120 A			
No Load Voltage	72			
WELDING CURRENT RANGE	5-200 A			
Efficiency	85%			
Up/Down Slope	0-10			
Pre/Post Flow	0.1-10/1-10			
Pulse Freq.	50-250			
Pulse Width Range	5%-95%			
Clearance effect(AC TIG)	15-50			
AC Frequency(Hz)	50-250			
Insulation class	H			
Protection class	IP 23			
Cooling	AF			
Dimensions l x w x h	465 x 146 x 278mm			
Weight	10.0 kg			
Electrode type	6013 7018			
Order information	1.0001.0369(-E)			



Excellent HF arc ignition; stable, focused and fast arc

GTAW 200P AC/DC



Applications ✓

- Light industry
- Motorsportss
- Maintenance and repair
- Process and food industry
- Intervention service

Control Panel ✓



KEY BENEFITS

- **AC Balance Control**-AC balance control monitors the oxide and helps better cleaning during aluminum welding.
- **Waveforms**-Square wave, sine wave, are selectable.
- **Accessories**-Remote foot control; Up/Down remote torch; Remote control torch.
- **Protections**-Equipped with temperature, voltage and current sensors for high protection.
- **Spot time**-Unique spot time/pulse time function selectable.



**Rotentiometer Remote
Control Torch**



**Up/Down Remote
Control Torch**



Foot control contractor
on/off and current control with
8-pin male plug and any length
ceahle or wireless control .



HF Easy ARC Striking



Pulse



Generator Frienly-
Suitable for use with
generators .



440V Tested In Production



Standard single phase
1-230V 50/60Hz power
supply.



Smart FAN-Reduce power comsuncption and the intake of dust and fames .

TECHNICAL DATA (subject to change without notice.)

	GTAW 200P AC/DC			
Power Supply Voltage	1-230			
Frequency	50/60Hz			
Rated Input Power	TIG 4.3kVA		MMA 6.2kVA	
Effective Current	AC/TIG 20 A	DC/TIG 21 A	AC/MMA 26 A	DC/MMA 29 A
Rated Input Current	34 A	35 A	44 A	48 A
Duty Cycle(40°C 10min)	35% 200 A			
	60% 155 A			
	100% 120 A			
No Load Voltage	72			
WELDING CURRENT RANGE	5-200 A			
Efficiency	85%			
Up/Down Slope	0-10			
Pre/Post Flow	0.1-10/1-10			
Pulse Freq.	50-250			
Pulse Width Range	5%-95%			
Clearance effect(AC TIG)	15-50			
AC Frequency(Hz)	50-250			
Insulation class	H			
Protection class	IP 23			
Cooling	AF			
Dimensions l x w x h	465 x 146 x 278mm			
Weight	10.0 kg			
Electrode type	6013 7018			
Order information	1.0001.0355(-E)			



Excellent LCD display ✓



Applications ✓

- Light industry
- Motorsportss
- Maintenance and repair
- Process and food industry
- Intervention service

KEY BENEFITS

- **AC Balance Control**-AC balance control monitors the oxide and helps better cleaning during aluminum welding.
- **Waveforms**-Square wave,sine wave,are selectable.
- **Accessories**-Remote foot control;Up/Down remote torch;Remote control torch.
- **Protections**-Equipped with temperature,voltage and current sensors for high protection.
- **Spot time**-Unique spot time/pulse time function selectable.

 **Rotenometer Remote Control Torch**

 **Up/Down Remote Control Torch**

 **Foot control contractor** on/off and current control with 8-pin male plug and any length ceahle or wireless control .

 **HF Easy ARC Striking**

 **Pulse**

 **Digital control system**-the welding parameter can be control more easier and more precise.

 **Generator Frienly**-Suitable for use with generators .

 **440V Tested In Production**

 **Standard single phase** 1-230V 50/60Hz power supply.

 **Smart FAN**-Reduce power comsunction and the intake of dust and fames .

TECHNICAL DATA(subject to change without notice.)

	GTAW 200P AC/DC LCD			
Power Supply Voltage	1-230			
Frequency	50/60Hz			
Rated Input Power	TIG 4.3kVA		MMA 6.2kVA	
Effective Current	AC/TIG 20 A	DC/TIG 21 A	AC/MMA 26 A	DC/MMA 29 A
Rated Input Current	34 A	35 A	44 A	48 A
Duty Cycle(40°C 10min)	35% 200 A			
	60% 155 A			
	100% 120 A			
No Load Voltage	72			
WELDING CURRENT RANGE	5-200 A			
Efficiency	85%			
Up/Down Slope	0-10			
Pre/Post Flow	0.1-10/1-10			
Pulse Freq.	50-250			
Pulse Width Range	5%-95%			
Clearance effect(AC TIG)	15-50			
AC Frequency(Hz)	50-250			
Insulation class	H			
Protection class	IP 23			
Cooling	AF			
Dimensions l x w x h	465 x 146 x 278mm			
Weight	10.0 kg			
Electrode type	6013 7018			
Order information	1.0001.0355(-E)			

Excellent HF arc ignition; stable,focused and fast arc

GTAW 200P AC/DC LCD





Applications ✓

- Light industry
- Motorsportss
- Maintenance and repair
- Process and food industry
- Intervention service

Control Panel ✓



KEY BENEFITS

- **AC Balance Control**-AC balance control monitors the oxide and helps better cleaning during aluminum welding.
- **Waveforms**-Square wave, sine wave, are selectable.
- **Accessories**-Remote foot control; Up/Down remote torch; Remote control torch.
- **Protections**-Equipped with temperature, voltage and current sensors for high protection.
- **Spot time**-Unique spot time/pulse time function selectable.
- Water Coolers and Cart available.



POWER FACTOR CORRECTION
Power factor more than 0.9 Multiple advantages such as energy saving and wider input voltage, works with 110V and 220V.



Rotentiometer Remote Control Torch



Up/Down Remote Control Torch



HF Easy ARC Striking



440V Tested In Production



Digital control system-the welding parameter can be control more easier and more precise.



Generator Friendly-Suitable for use with generators.



Foot control contractor on/off and current control with 8-pin male plug and any length ceable or wireless control.



Smart FAN-Reduce power consumption and the intake of dust and fumes.

TECHNICAL DATA (subject to change without notice.)

	GTAW 200P AC/DC PFC				GTAW 250P AC/DC PFC			
Power Supply Voltage	90V-275V(AC)				90V-275V(AC)			
	1-110		1-230		1-110		1-230	
	TIG	MMA	TIG	MMA	TIG	MMA	TIG	MMA
Rated Input Power	3.6kVA	4.2kVA	4.7kVA	6.6kVA	3.6kVA	4.2kVA	4.7kVA	6.6kVA
Effective Current	23 A	19 A	16 A	18 A	23 A	19 A	16 A	18 A
Rated Input Current	30 A	35 A	21 A	31 A	30 A	35 A	21 A	31 A
Duty Cycle(40℃ 10min)	60% 160 A	30% 130 A	60% 200 A	35% 200 A	60% 160 A	30% 130 A	60% 200 A	35% 200 A
		60% 110 A		60% 140 A		60% 110 A		60% 140 A
	100% 125 A	100% 80 A	100% 110 A	100% 110 A	100% 125 A	100% 80 A	100% 110 A	100% 110 A
WELDING CURRENT RANGE	50-130 A	50-160 A	50-200 A		50-130 A	50-160 A	50-200 A	
Frequency	50/60Hz				50/60Hz			
No Load Voltage	72				72			
Efficiency	85%				85%			
Up/Down Slope	0-10				0-10			
Pre/Post Flow	0.1-10/1-10				0.1-10/1-10			
Pulse Freq.	0.5-200				0.5-200			
Pulse Width Range	5%-95%				5%-95%			
Clearance effect(AC TIG)	15-50				15-50			
AC Frequency(Hz)	50-250				50-250			
Insulation class	H				H			
Protection class	IP 23				IP 23			
Cooling	AF				AF			
Dimensions l x w x h	492 x 189 x 350mm				492 x 189 x 350mm			
Weight	15.0 kg				15.0 kg			
Electrode type	6013 7018				6013 7018			
Order information	1. 0002.0366(Gas) 1. 0002.0367(Water)							

Excellent HF arc ignition; stable, focused and fast arc

GTAW 200P/250P AC/DC PFC



**PERFECT
IGNITION
RESPONSE**
/ ARC stable
/ ARC focused



Excellent LCD display ✓



Applications ✓

- Light industry
- Motorsportss
- Maintenance and repair
- Process and food industry
- Intervention service

KEY BENEFITS

- AC Balance Control**-AC balance control monitors the oxide and helps better cleaning during aluminum welding.
- Waveforms**-Square wave,sine wave,are selectable.
- Accessories**-Remote foot control;Up/Down remote torch;Remote control torch.
- Protections**-Equipped with temperature,voltage and current sensors for high protection.
- Spot time**-Unique spot time/pulse time function selectable.
- Water Coolers and Cart available.**



POWER FACTOR CORRECTION
Power factor more than 0.9 Multiple advantages such as energy saving and wider input voltage,works with 110V and 220V.



Rotentiometer Remote Control Torch



Up/Down Remote Control Torch



HF Easy ARC Striking



440V Tested In Production



Digital control system-the welding parameter can be control more easier and more precise.



Generator Friendly-Suitable for use with generators .



Foot control contractor on/off and current control with 8-pin male plug and any length ceahle or wireless control .



Smart FAN-Reduce power consumption and the intake of dust and fames .

TECHNICAL DATA (subject to change without notice.)

	GTAW 200P AC/DC LCD PFC				GTAW 250P AC/DC LCD PFC			
Power Supply Voltage	90V-275V(AC)				90V-275V(AC)			
	1-110		1-230		1-110		1-230	
	TIG	MMA	TIG	MMA	TIG	MMA	TIG	MMA
Rated Input Power	3.6kVA	4.2kVA	4.7kVA	6.6kVA	3.6kVA	4.2kVA	5kVA	7.5kVA
Effective Current	23 A	19 A	16 A	18 A	23 A	19 A	19.4 A	29.4 A
Rated Input Current	30 A	35 A	21 A	31 A	30 A	35 A	25 A	38 A
Duty Cycle(40°C 10min)	60% 160 A	30% 130 A	60% 200 A	35% 200 A	60% 160 A	30% 130 A	60% 250 A	35% 250 A
		60% 110 A		60% 140 A		60% 110 A		60% 190 A
	100% 125 A	100% 80 A	100% 110 A	100% 110 A	100% 125 A	100% 80 A	100% 194 A	100% 148 A
WELDING CURRENT RANGE	50-130 A	50-160 A	50-200 A		50-130 A	50-160 A	50-200 A	
Frequency	50/60Hz				50/60Hz			
No Load Voltage	72				72			
Efficiency	85%				85%			
Up/Down Slope	0-10				0-10			
Pre/Post Flow	0.1-10/1-10				0.1-10/1-10			
Pulse Fre.	0.5-200				0.5-200			
Pulse Width Range	5%-95%				5%-95%			
Clearance effect(AC TIG)	15-50				15-50			
AC Frequency(Hz)	50-250				50-250			
Insulation class	H				H			
Protection class	IP 23				IP 23			
Cooling	AF				AF			
Dimensions l x w x h	492 x 189 x 350mm				492 x 189 x 350mm			
Weight	15.0 kg				15.0 kg			
Electrode type	6013 7018				6013 7018			
Order information	1.0002.0368(E)				1.0002.0372(E)			

Excellent HF arc ignition; stable,focused and fast arc

GTAW 200P/250P AC/DC LCD PFC





Excellent HF arc ignition; stable, focused and fast arc

Sim-GTAW 300P AC/DC



Applications ✓

- Industrial applications
- Industrial plants
- Maintenance and repair
- Pipe construction
- Process and food industry
- Metal construction
- Aerospace industry
- Chemical industry
- Aluminium solutions

Standard digital display ✓



KEY BENEFITS

- **AC Balance Control**-AC balance control monitors the oxide and helps better cleaning during aluminum welding.
- **Waveforms**-Square wave, sine wave, are selectable.
- **Protections**-Equipped with temperature, voltage and current sensors for high protection.



Smart FAN-Reduce power consumption and the intake of dust and fumes.

TECHNICAL DATA (subject to change without notice.)

Sim-GTAW 300P AC/DC			
Power Supply Voltage	3-380		
	TIG		MMA
Rated Input Power	7.3kVA		8.8kVA
Effective Current	8.5 A		8.9 A
Rated Input Current	15.6 A		14 A
Duty Cycle(40°C 10min)	30% 290 A		30% 250 A
	100% 205 A		100% 177 A
	100% 159 A		100% 136 A
WELDING CURRENT RANGE	10-320 A		
Frequency	50/60Hz		
No Load Voltage	67		
Efficiency	85%		
Up/Down Slope	0-10		
Pre/Post Flow	0-2/0-10		
Pulse Freq.	0.5-250		
Pulse Width Range	5%-95%		
Clearance effect(AC TIG)	15-50		
AC Frequency(Hz)	5-250		
Insulation class	H		
Protection class	IP 23		
Cooling	AF		
Dimensions l x w x h	550 x 240 x 445mm		
Weight	25.5 kg		
Electrode type	6013 7018		
Order information			



Excellent LCD display ✓



Applications ✓

- Industrial applications
- Industrial plants
- Maintenance and repair
- Pipe construction
- Process and food industry
- Metal construction
- Aerospace industry
- Chemical industry
- Aluminium solutions

KEY BENEFITS

- **AC Balance Control**-AC balance control monitors the oxide and helps better cleaning during aluminum welding.
- **Protections**-Equipped with temperature, voltage and current sensors for high protection.
- **Waveforms**-Square wave, sine wave, are selectable.

Rotentiometer Remote Control Torch

Up/Down Remote Control Torch

Foot control contractor on/off and current control with 8-pin male plug and any length ceable or wireless control .

HF Easy ARC Striking

Pulse

Digital control system-the welding parameter can be control more easier and more precise .

Generator Frienly-Suitable for use with generators .

550V Tested In Production

Standard tripple phase 3-400V 50/60Hz power supply .

Smart FAN-Reduce power comsuncption and the intake of dust and fames .

TECHNICAL DATA (subject to change without notice.)

Sim-GTAW 300P AC/DC LCD			
Power Supply Voltage	3-380		
	TIG		MMA
Rated Input Power	7.3kVA		8.8kVA
Effective Current	8.5 A		8.9 A
Rated Input Current	15.6 A		14 A
Duty Cycle(40°C 10min)	30% 290 A		30% 250 A
	100% 205 A		100% 177 A
	100% 159 A		100% 136 A
WELDING CURRENT RANGE	10-320 A		
Frequency	50/60Hz		
No Load Voltage	67		
Efficiency	85%		
Up/Down Slope	0-10		
Pre/Post Flow	0-2/0-10		
Pulse Freq.	0.5-250		
Pulse Width Range	5%-95%		
Clearance effect(AC TIG)	15-50		
AC Frequency(Hz)	5-250		
Insulation class	H		
Protection class	IP 23		
Cooling	AF		
Dimensions l x w x h	550 x 240 x 445mm		
Weight	25.5 kg		
Electrode type	6013 7018		
Order information			

Excellent HF arc ignition; stable, focused and fast arc

Sim-GTAW 300P AC/DC LCD





Standard digital display ✓



Applications ✓

- Heavy industrial applications
- Industrial plants
- Maintenance and repair
- Pipe construction
- Process and food industry
- Metal construction
- Aerospace industry
- Chemical industry
- Nuclear industry
- Aluminium solutions

KEY BENEFITS

- **AC Balance Control**-AC balance control monitors the oxide and helps better cleaning during aluminum welding.
- **Waveforms**-Square wave, sine wave, are selectable.
- **Protections**-Equipped with temperature, voltage and current sensors for high protection.
- **Water Coolers and Cart available.**



When you have a wrong grid voltage, the machine will stop work immediately and the key core will be protected from damage especially the IGBT.



Rotentiometer Remote Control Torch



Up/Down Remote Control Torch



Foot control contractor on/off and current control with 8-pin male plug and any length cable or wireless control.



HF Easy ARC Striking



Pulse



Generator Friendly-Suitable for use with generators.



550V Tested In Production



Digital control system-the welding parameter can be control more easier and more precise.



Smart FAN-Reduce power consumption and the intake of dust and fumes.



Standard tripple phase 3-400V 50/60Hz power supply.



IGBT Module



Heavy Duty Cycle 60%

TECHNICAL DATA (subject to change without notice.)

	Pro-GTAW 320P AC/DC		Pro-GTAW 400P AC/DC		Pro-GTAW 500P AC/DC	
Power Supply Voltage	3-380		3-380		3-380	
	TIG	MMA	TIG	MMA	TIG	MMA
Rated Input Power	9kVA	13kVA	13kVA	17kVA	18.8kVA	25kVA
Effective Current	14 A	18.5 A	19 A	25 A	32(DC/TIG)	34(AC/MMA)
Rated Input Current	18 A	24 A	25 A	32 A	41(DC/TIG)	44(AC/MMA)
Duty Cycle(40°C 10min)	60% 320 A		60% 400 A		60% 500 A	
	100% 250 A		100% 310 A		100% 390 A	
WELDING CURRENT RANGE	10-320 A		10-400 A		50-280 A	
	Frequency		50/60Hz		50/60Hz	
No Load Voltage	67		67		78	
Efficiency	85%		85%		85%	
Up/Down Slope	0-10		0-10		0-10	
Pre/Post Flow	0-2/0-10		0-2/0-10		0-2/0-10	
Pulse Freq.	0.5-250		0.5-250		0.5-250	
Pulse Width Range	5%-95%		5%-95%		5%-95%	
Clearance effect(AC TIG)	15-50		15-50		15-50	
AC Frequency(Hz)	5-250		5-250		5-250	
Insulation class	H		H		H	
Protection class	IP 23		IP 23		IP 23	
Cooling	AF		AF		AF	
Dimensions l x w x h	550 x 240 x 445mm		550 x 240 x 445mm		550 x 280 x 485mm	
Weight	25.5 kg		27.0 kg		30.0 kg	
Electrode type	6013 7018		6013 7018		6013 7018	
Order information	1.0001.0401(-E)		1.0001.0415(-E)		1.0001.0420(-E)	

Excellent HF arc ignition; stable, focused and fast arc

Pro-GTAW 320P/400P/500P AC/DC





Excellent LCD display ✓



- Applications** ✓
- Heavy industrial applications
 - Industrial plants
 - Maintenance and repair
 - Pipe construction
 - Process and food industry
 - Metal construction
 - Aerospace industry
 - Chemical industry
 - Nuclear industry
 - Aluminium solutions

KEY BENEFITS

- **AC Balance Control**-AC balance control monitors the oxide and helps better cleaning during aluminum welding.
- **Waveforms**-Square wave, sine wave, are selectable.
- **Protections**-Equipped with temperature, voltage and current sensors for high protection.
- **Water Coolers and Cart available.**



When you have a wrong grid voltage, the machine will stop work immediately and the key core will be protected from damage especially the IGBT.



Rotentiometer Remote Control Torch



Up/Down Remote Control Torch



Foot control contractor on/off and current control with 8-pin male plug and any length cable or wireless control.



HF Easy ARC Striking



Pulse



Generator Friendly-Suitable for use with generators.



550V Tested In Production



Digital control system-the welding parameter can be control more easier and more precise.



Smart FAN-Reduce power consumption and the intake of dust and fumes.



Standard tripple phase 3-400V 50/60Hz power supply.



IGBT Module



Heavy Duty Cycle 60%

TECHNICAL DATA (subject to change without notice.)

	Pro-GTAW 320P AC/DC LCD		Pro-GTAW 400P AC/DC LCD		Pro-GTAW 500P AC/DC LCD	
Power Supply Voltage	3-380		3-380		3-380	
	TIG	MMA	TIG	MMA	TIG	MMA
Rated Input Power	9kVA	13kVA	13kVA	17kVA	18.8kVA	25kVA
Effective Current	14 A	18.5 A	19 A	25 A	32(DC/TIG)	37(DC/TIG)
Rated Input Current	18 A	24 A	25 A	32 A	41(DC/TIG)	44(DC/TIG)
Duty Cycle(40°C 10min)	60% 320 A		60% 400 A		60% 500 A	
	100% 250 A		100% 310 A		100% 390 A	
WELDING CURRENT RANGE	10-320 A		10-400 A		50-280 A	
	Frequency 50/60Hz		50/60Hz		50/60Hz	
No Load Voltage	67		67		78	
Efficiency	85%		85%		85%	
Up/Down Slope	0-10		0-10		0-10	
Pre/Post Flow	0-2/0-10		0-2/0-10		0-2/0-10	
Pulse Freq.	0.5-250		0.5-250		0.5-250	
Pulse Width Range	5%-95%		5%-95%		5%-95%	
Clearance effect(AC TIG)	15-50		15-50		15-50	
AC Frequency(Hz)	5-250		5-250		5-250	
Insulation class	H		H		H	
Protection class	IP 23		IP 23		IP 23	
Cooling	AF		AF		AF	
Dimensions l x w x h	550 x 240 x 445mm		550 x 240 x 445mm		550 x 280 x 485mm	
Weight	25.5 kg		27.0 kg		30.0 kg	
Electrode type	6013 7018		6013 7018		6013 7018	
Order information	1.0001.0403(-E)		1.0001.0416(-E)		1.0001.0421(-E)	

Excellent HF arc ignition; stable, focused and fast arc

Pro-GTAW 320P/400P/500P AC/DC LCD



MIG^{GMAW} INVERTER



H MIG/MAG equipment keeps the technology on the inside, and simple, intuitive control and performance on the outside.

GMAW series, an essential single phase inverter, generator compatible, compact, easy to move, with precise weld quality and with very good arc ignition.

Multi-GMAW series are multiprocess-capable, bringing together MMA, MIG/MAG and TIG in a single device. They are characterised by the intelligent design of the device, ease of use, robustness and a high level reliability.

DC INVERTER MIG WELDER



MIG Series



Innovative, robust, compact, portable, and light weight design ready to be used anywhere

MIG 100 GASLESS



Flux-cord

Light Industrial Applications ✓

- Repair and Maintenance
- Garage/job shops
- Agricultural Equipment
- Light Industrial and General Fabrication

Control Panel ✓



KEY BENEFITS

■ **Protections**-Equipped with temperature, voltage and current sensors for high protection.

■ **Arc Stability**-Waveform control, for added stability of the arc, even at the low current.



Φ 102mm(1KG)



Standard single phase
1-230V 50/60Hz power supply.



440V Tested In Production



Generator Friendly-
Suitable for use with generators .

TECHNICAL DATA (subject to change without notice.)

	MIG 100 GASLESS
Power Supply Voltage	1-230
Grid frequency	50/60Hz
Effective Current	9.5 A
Rated Input Power	2.2kVA
Rated Input Current	18.3 A
Duty Cycle(40°C, 10min)	25% 100 A
	60% 65 A
	100% 50 A
No Load Voltage	68
WELDING CURRENT RANGE	40-160 A
WELDING VOLTAGE RANGE	12-22 V
Efficiency	85%
Power Factor	0.85
Insulation class	H
Protection class	IP 23
Cooling	AF
Dimensions l x w x h	410 x 146 x 278mm
Weight	12.0 kg
Wire Diameter(MM)	0.8/0.8/0.9/Fe/Ss/Flux-Cored
Electrode type	6013 7018
Order information	1.0001.0502(-E)



Innovative, robust, compact, portable, and light weight design ready to be used anywhere

Multi-GMAW 180/180 SYN



Applications ✓

- Small workshops
- Light steel construction
- General repair
- Maintenance workshops

Control Panel ✓



KEY BENEFITS

- Digital display**-Digital control of all the welding parameters, user friendly icon control panel.
- Arc Stability**-Waveform control, for added stability of the arc, even at the low current.
- Spool Gun**-Capable of loading up to 5kg Spool.
- Protections**-Equipped with temperature, voltage and current sensors for high protection.



Φ 200mm(5KG)



440V Tested In Production



Smart FAN-Reduce power consumption and the intake of dust and fumes.



Standard single phase
1-230V 50/60Hz power supply.



Generator Friendly-Suitable for use with generators.



SYNERGIC

TECHNICAL DATA (subject to change without notice.)

	Multi-GMAW 180			Multi-GMAW 180 SYN		
	MIG	TIG	MMA	MIG	TIG	MMA
Power Supply Voltage	1-230	1-230	1-230	1-230	1-230	1-230
Grid frequency	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz
Effective Current	20.3 A	17 A	20.3 A	20.3 A	17 A	20.3 A
Rated Input Power	5.7kVA	3.6kVA	5.7kVA	5.7kVA	3.6kVA	5.7kVA
Rated Input Current	37 A	28 A	23 A	37 A	28 A	23 A
Duty Cycle(40°C 10min)	30% 180 A			30% 180 A		
	60% 130 A			60% 130 A		
	100% 100 A			100% 100 A		
No Load Voltage	68			68		
WELDING CURRENT RANGE	40-160 A			40-160 A		
WELDING VOLTAGE RANGE	12-22 V			12-22 V		
Efficiency	85%			85%		
Power Factor	0.65			0.65		
Insulation class	H			H		
Protection class	IP 23			IP 23		
Cooling	AF			AF		
Dimensions l x w x h	410 x 146 x 278mm			410 x 146 x 278mm		
Weight	12.0 kg			12.0 kg		
Wire Diameter(MM)	0.6/0.8/0.9/Fe/Ss/Flux-Cored			0.6/0.8/0.9/Fe/Ss/Flux-Cored		
Electrode type	6013 7018			6013 7018		
Order information	1.0001.0549(-E)			1.0001.0526(-E)		



Innovative, robust, compact, portable, and light weight design ready to be used anywhere

Multi-GMAW 180 DV



Applications ✓

- Small workshops
- Light steel construction
- General repair
- Maintenance workshops

Control Panel ✓



KEY BENEFITS

- Digital display**-Digital control of all the welding parameters, user friendly icon control panel.
- Arc Stability**-Waveform control, for added stability of the arc, even at the low current.
- Spool Gun**-Capable of loading up to 5kg Spool.
- Protections**-Equipped with temperature, voltage and current sensors for high protection.



Φ 200mm(5KG)



Dualvoltage power supply
1-110V/1-230V 50/60Hz .



440V Tested In Production



Generator Friendly-
Suitable for use with
generators .



Smart FAN-Reduce power consumption and the intake of dust and fumes .

TECHNICAL DATA (subject to change without notice.)

Multi-GMAW 180 DV						
Power Supply Voltage	1-230±10%			1-130±10%		
	MIG	TIG	MMA	MIG	TIG	MMA
Grid frequency	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz
Effective Current	20.3 A	17 A	11.3 A	21.5 A	22 A	28 A
Rated Input Power	4.8kVA	3.6kVA	5.7kVA	2.8kVA	2.3kVA	3.1kVA
Rated Input Current	37 A	28 A	23 A	43 A	34.8 A	54 A
Duty Cycle(40°C 10min)	40% 180 A			40% 120 A	40% 130 A	40% 110 A
	60% 160 A			60% 98 A	60% 106 A	60% 90 A
	100% 140 A			100% 76 A	100% 82 A	100% 70 A
No Load Voltage	63					
WELDING CURRENT RANGE	40-160 A					
WELDING VOLTAGE RANGE	12-22 V					
Efficiency	85%					
Power Factor	0.85					
Insulation class	H					
Protection class	IP 23					
Cooling	AF					
Dimensions l x w x h	410 x 146 x 278mm					
Weight	12.0 kg					
Wire Diameter(MM)	0.6/0.8/0.9/Fe/Ss/Flux-Cored					
Electrode type	6013 7018					
Order information	1.0001.0547(-E)					



Innovative, robust, compact, portable, and light weight design ready to be used anywhere

GMAW 160/200



Applications ✓

- Small workshops
- Light steel construction
- General repair
- Maintenance workshops

Control Panel ✓



KEY BENEFITS

- Digital display**-Digital control of all the welding parameters, user friendly icon control panel.
- Arc Stability**-Waveform control, for added stability of the arc, even at the low current.
- Spool Gun**-Capable of loading up to 5kg Spool.
- Protections**-Equipped with temperature, voltage and current sensors for high protection.



Φ 200mm(5KG)



Standard single phase
1-230V 50/60Hz power supply .



440V Tested In Production



Generator Friendly-
Suitable for use with generators .



Smart FAN-Reduce power consumption and the intake of dust and fumes .

TECHNICAL DATA (subject to change without notice.)

	GMAW 160	GMAW 200
Power Supply Voltage	1-230	1-230
Grid frequency	50/60Hz	50/60Hz
Effective Current	20 A	22 A
Rated Input Power	4.6kVA	5.6kVA
Rated Input Current	32 A	40 A
Duty Cycle(40°C 10min)	40% 160 A	30% 200 A
	60% 135 A	60% 145 A
	100% 105 A	100% 110 A
No Load Voltage	68	68
WELDING CURRENT RANGE	40-160 A	40-200 A
WELDING VOLTAGE RANGE	12-22 V	12-24 V
Efficiency	85%	85%
Power Factor	0.65	0.65
Insulation class	H	H
Protection class	IP 23	IP 23
Cooling	AF	AF
Dimensions l x w x h	410 x 146 x 278mm	410 x 146 x 278mm
Weight	12.0 kg	12.0 kg
Wire Diameter(MM)	0.8/0.8/0.9/Fe/Ss/Flux-Cored	0.8/0.8/0.9/1.0/Fe/Ss/Flux-Cored
Electrode type	6013 7018	6013 7018
Order information	1.0001.0523(-E)	1.0001.0530(-E)

Applications ✓

- Small workshops
- Light steel construction
- General repair
- Maintenance workshops

Control Panel ✓



KEY BENEFITS

- Wire Feeder**-4 rolls wire feeder is available.
- Pool Gun**-Capable of loading up to 5Kg Spool.
- Protections**-Equipped with temperature, voltage and current sensors for high protection.
- Arc Stability**-Waveform control, for added stability of the arc, even at the low current.



Φ 300mm (20KG)
Φ 200mm (5KG)



Standard tripple phase
1-230V 50/60Hz power
supply.



Heavy Duty Cycle 60%



Generator Frienly-
Suitable for use with
generators .



Smart FAN-Reduce power comsuncption and the
intake of dust and fames .



When you have a wrong gird voltage, the machine will stop work immediately and the key core will be protected from damage especially the **IGBT** .

TECHNICAL DATA(subject to change without notice.)

	GMAW 250-3	GMAW 315
Power Supply Voltage	3-400	3-400
Effective Current	16 A	15 A
Rated Input Power	7.6kVA	11kVA
Rated Input Current	21 A	24 A
Duty Cycle(40°C 10min)		40% 315 A
	60% 250 A	60% 250 A
	100% 200 A	100% 200 A
Grid frequency	50/60Hz	50/60Hz
No Load Voltage	48	53
WELDING CURRENT RANGE	50-250 A	50-315 A
WELDING VOLTAGE RANGE	13.5-26.5 V	13.5-30 V
Efficiency	85%	85%
Power Factor	0.70	0.70
Insulation class	H	H
Protection class	IP 23	IP 23
Cooling	AF	AF
Dimensions l x w x h	618x 240 x 445mm	618x 240 x 445mm
Weight	25.0 kg	25.0 kg
Wire Diameter(MM)	Fe:0.6/0.9/1.0/1.2 Ss:0.8/0.9/1.0/1.2 Flux-Cored:0.6/0.8/0.9/1.0/1.2	Fe:0.6/0.9/1.0/1.2 Ss:0.8/0.9/1.0/1.2 Flux-Cored:0.6/0.8/0.9/1.0/1.2
Electrode type	6013 7018	6013 7018
Order information	1.0001.0534(-E)	1.0001.0540(-E)



Innovative,robuct,compact,portable,and light weight design ready to be used anywhere

GMAW 250-3/315



Flux-cord

Applications ✓

- Small workshops
- Light steel construction
- General repair
- Maintenance workshops

Control Panel ✓



KEY BENEFITS

- Wire Feeder**-4 rolls wire feeder is available.
- Pool Gun**-Capable of loading up to 5Kg Spool.
- Protections**-Equipped with temperature, voltage and current sensors for high protection.
- Arc Stability**-Waveform control, for added stability of the arc, even at the low current.



Φ 300mm (20KG)
Φ 200mm (5KG)



Standard tripple phase
1-230V 50/60Hz power
supply.



Heavy Duty Cycle 60%



Generator Frienly-
Suitable for use with
generators .



Smart FAN-Reduce power comsuncption and the
intake of dust and fames .



When you have a wrong gird voltage, the machine will stop work immediately and the key core will be protected from damage especially the **IGBT** .

TECHNICAL DATA(subject to change without notice.)

	Multi-GMAW 200 LCD			Multi-GMAW 250 LCD			Multi-GMAW 315 LCD		
Power Supply Voltage	3-400			3-400			3-400		
	MIG	TIG	MMA	MIG	MMA	TIG	MIG	TIG	MMA
Effective Current	12.5 A	10.5 A	14 A	12 A	14 A	10 A	15 A	14 A	15 A
Rated Input Power	5.6kVA	4.2kVA	6.5kVA	7.4kVA	8.9kVA	6.1kVA	11kVA	8.3kVA	12kVA
Rated Input Current	16 A	14 A	18 A	15 A	18 A	13 A	24 A	18 A	24 A
Duty Cycle(40°C 10min)							40% 315 A		
	60% 200 A			60% 250 A			60% 250 A		
	100% 150 A			100% 195 A			100% 200 A		
Grid frequency	50/60Hz			50/60Hz			50/60Hz		
No Load Voltage	48			15			53		
WELDING CURRENT RANGE	50-250 A			15-250 A	10-250 A	10-250 A	50-315 A		
WELDING VOLTAGE RANGE	13.5-26.5 V			16-26.5 V(MMA/TIG) 100 V(MIG)			13.5-30 V		
Efficiency	85%			80%			85%		
Power Factor	0.70			0.70			0.70		
Insulation class	H			H			H		
Protection class	IP 23			IP 23			IP 23		
Cooling	AF			AF			AF		
Dimensions l x w x h	618x 240 x 445mm			670 x 240 x 450mm			618x 240 x 445mm		
Weight	25.0 kg			26.0 kg			27.0 kg		
Wire Diameter(NM)	Fe:0.6/0.8/1.0/1.2 Ss:0.8/0.9/1.0/1.2 Flux-Cored:0.6/0.8/0.9/1.0/1.2			Fe:0.6/0.8/0.9/1.0/1.2 Ss:0.8/1.0 Flux-Cored:0.6/0.8/0.9/1.0/1.2 Al:1.0/1.2			Fe:0.6/0.9/1.0/1.2 Ss:0.8/0.9/1.0/1.2 Flux-Cored:0.6/0.8/0.9/1.0/1.2		
Electrode type	6013 7018			6013 7018			6013 7018		
Order information									



Innovative,robuct,compact,portable,and light weight design ready to be used anywhere

Multi-GMAW 200/250/315 LCD





Applications ✓

- Heavy Fabrication
- Structural
- General Fabrication
- Shipbuilding

Control Panel ✓



KEY BENEFITS

- Digital display**-Digital control of all the welding parameters.
- Accessories**-Optional trolley and water cooling unit.
- Protections**-Equipped with temperature, voltage and current sensors for high protection.
- Arc Stability**-Waveform control, for added stability of the arc, even at the low current.



When you have a wrong grid voltage, the machine will stop work immediately and the key core will be protected from damage especially the IGBT.



Weld steel stainless and aluminum with the optional **Spool Gun**



Standard tripple phase **3-400V 50/60Hz** power supply.



Φ 300mm (20KG)
Φ 200mm (20KG)



IGBT Module



SYNERGIC



Generator Frienly-
Suitable for use with generators about 7kw.



550V Tested In Production



Heavy Duty Cycle 60%



Smart FAN-Reduce power consuncption and the intake of dust and fames.

TECHNICAL DATA (subject to change without notice.)

	Multi-GMAW 350S			Multi-GMAW 400S			Multi-GMAW 500S		
Power Supply Voltage	3-400			3-400			3-400		
	MIG	MMA	TIG	MIG	MMA	TIG	MIG	MMA	TIG
Effective Current	18 A	20 A	16 A	26 A	26 A	21 A	34 A	34 A	27 A
Rated Input Power	12.8kVA	14kVA	10kVA	15.5kVA	16.5kVA	12kVA	23kVA	23kVA	16kVA
Rated Input Current	23 A	26 A	20 A	33 A	33 A	27 A	44 A	44 A	35 A
Duty Cycle(40°C 10min)	60% 350 A			60% 400 A			60% 500 A		
	100% 275 A			100% 310 A			100% 400 A		
Grid frequency	50/60Hz			50/60Hz			50/60Hz		
No Load Voltage	67			81			68		
WELDING CURRENT RANGE	40-350 A(MIG)			40-400 A(MIG)			40-500 A(MIG)		
WELDING VOLTAGE RANGE	14-35 V(MIG)			14-40 V(MIG)			14-50 V(MIG)		
Efficiency	85%			85%			85%		
Power Factor	0.70			0.75			0.75		
Insulation class	H			H			H		
Protection class	IP 23			IP 23			IP 23		
Cooling	AF			AF			AF		
Dimensions l x w x h	525x 240 x 445mm			525x 240 x 445mm			605x 240 x 445mm		
Weight	22.0 kg			23.0 kg			31.5 kg		
Wire Diameter(MM)	Fe:0.6/0.9/1.0/1.2 Ss:0.8/0.9/1.0/1.2 Flux-Cored:0.6/0.8/0.9/1.0/1.2			Fe:0.6/0.9/1.0/1.2 Ss:0.8/0.9/1.0/1.2 Flux-Cored:0.6/0.8/0.9/1.0/1.2			Fe:0.6/0.9/1.0/1.2 Ss:0.8/0.9/1.0/1.2 Flux-Cored:0.6/0.8/0.9/1.0/1.2		
Electrode type	6013 7018			6013 7018			6013 7018		
Order information	1.0001.0604(-E)			1.0001.0605(-E)			1.0001.0607(-E)		

Superior quality welding with advanced processes and faetures

Multi-GMAW 350S/400S/500S





Innovative, robust, compact, portable, and light weight design ready to be used anywhere

Multi-GMAW 200 PFC ES



Applications ✓

- Small workshops
- Light steel construction
- General repair
- Maintenance workshops

Control Panel ✓



KEY BENEFITS

- Digital display**-Digital control of all the welding parameters, user friendly icon control panel.
- Arc Stability**-Waveform control, for added stability of the arc, even at the low current.
- Spool Gun**-Capable of loading up to 5kg Spool.
- Protections**-Equipped with temperature, voltage and current sensors for high protection.



POWER FACTOR CORRECTION
Power factor more than 0.9 Multiple advantages such as energy saving and wider input voltage, works with 110V and 220V.



Weld steel stainless and aluminum with the optional **Spool Gun**



When the "V.R.D" mode on the output voltage only 14.5V, it's absolutely safe for welders.



Φ 200mm (5KG)



Smart FAN-Reduce power consumption and the intake of dust and fumes.



SYNERGIC



Generator Friendly-Suitable for use with generators.



440V Tested In Production



Digital control system-the welding parameter can be control more easier and more precise.

TECHNICAL DATA (subject to change without notice.)

	Multi-GMAW 200 PFC ES					
	1-110/120/130±10%			2-220/230/240±10%		
Power Supply Voltage	90VAC-275VAC					
	MIG	MMA	TIG	MIG	MMA	TIG
Effective Current	23 A	20 A	16 A	16 A	15 A	12 A
Rated input Power	4kVA	3.5kVA	3.2kVA	6.2kVA	6.2kVA	4.2kVA
Rated Input Current	38 A	32 A	29 A	29 A	30 A	20 A
Duty Cycle(40°C 10min)	35% 140 A	40% 110 A	30% 150 A	30% 200 A	25% 200 A	35% 200 A
	60% 110 A	60% 90 A	60% 110 A	60% 145 A	60% 130 A	60% 155 A
	100% 85 A	100% 70 A	100% 80 A	100% 110 A	100% 100 A	100% 120 A
Grid frequency	50/60Hz					
No Load Voltage	65					
WELDING CURRENT RANGE	(MIG)40-200 A (MMA/TIG)10-200 A					
WELDING VOLTAGE RANGE	14-24 V					
Efficiency	80%					
Power Factor	0.99					
Insulation class	H					
Protection class	IP 23					
Cooling	AF					
Dimensions l x w x h	511 x 213 x 400mm					
Weight	28.0 kg					
Wire Diameter(MM)	Fe:0.6/0.8/1.0 Ss:0.8/0.9/1.0 Flux-Cored:0.6/0.8/0.9/1.0					
Electrode type	6013 7018					
Order information	1.0001.0553(-E)					

Applications ✓

- Small workshops
- Light steel construction
- General repair
- Maintenance workshops

Control Panel ✓



KEY BENEFITS

- Digital display**-Digital control of all the welding parameters, user friendly icon control panel.
- Arc Stability**-Waveform control, for added stability of the arc, even at the low current.
- Spool Gun**-Capable of loading up to 5kg Spool.
- Protections**-Equipped with temperature, voltage and current sensors for high protection.



POWER FACTOR CORRECTION
Power factor more than 0.9 Multiple advantages such as energy saving and wider input voltage, works with 110V and 220V.



Weld steel stainless and aluminum with the optional **Spool Gun**



When the "V.R.D" mode on the output voltage only 14.5V, it's absolutely safe for welders.



Φ 200mm
(5KG)



Smart FAN-Reduce power consumption and the intake of dust and fumes.



SYNERGIC



Generator Friendly-Suitable for use with generators.



440V Tested In Production



Digital control system-the welding parameter can be control more easier and more precise.

TECHNICAL DATA(subject to change without notice.)

	Multi-GMAW 200 PFC					
	1-110/120/130±10%			2-220/230/240±10%		
Power Supply Voltage	90VAC-275VAC					
	MIG	MMA	TIG	MIG	MMA	TIG
Effective Current	23 A	20 A	16 A	16 A	15 A	12 A
Rated Input Power	4kVA	3.5kVA	3.2kVA	6.2kVA	6.2kVA	4.2kVA
Rated Input Current	38 A	32 A	29 A	29 A	30 A	20 A
Duty Cycle(40°C 10min)	35% 140 A	40% 110 A	30% 150 A	30% 200 A	25% 200 A	35% 200 A
	60% 110 A	60% 90 A	60% 110 A	60% 145 A	60% 130 A	60% 155 A
	100% 85 A	100% 70 A	100% 80 A	100% 110 A	100% 100 A	100% 120 A
Grid frequency	50/60Hz					
No Load Voltage	65					
WELDING CURRENT RANGE	(MIG)40-200 A (MMA/TIG)10-200 A					
WELDING VOLTAGE RANGE	14-24 V					
Efficiency	80%					
Power Factor	0.99					
Insulation class	H					
Protection class	IP 23					
Cooling	AF					
Dimensions l x w x h	511 x 213 x 400mm					
Weight	20.0 kg					
Wire Diameter(MM)	Fe:0.6/0.8/1.0 Ss:0.8/0.9/1.0 Flux-Cored:0.6/0.8/0.9/1.0					
Electrode type	6013 7018					
Order information	1.0001.0561(-E)					

Innovative,robust,compact,portable,and light weight design ready to be used anywhere

Multi-GMAW 200 PFC





Applications ✓

- Small workshops
- Light steel construction
- General repair
- Maintenance workshops

Control Panel ✓



KEY BENEFITS

- LCD Display**-4.3-inch screen with rich color.
- Protections**-Equipped with temperature, voltage and current sensors for high protection.
- Spool Gun**-Capable of loading up to 5Kg Spool.
- Arc Stability**-Waveform control, for added stability of the arc, even at the low current.



POWER FACTOR CORRECTION
Power factor more than 0.9 Multiple advantages such as energy saving and wider input voltage, works with 110V and 220V.



Weld steel stainless and aluminum with the optional **Spool Gun**



When the "V.R.D" mode on the output voltage only 14.5V, it's absolutely safe for welders.



Φ 200mm
(5KG)



Standard single phase 1-230V
50/60Hz power supply.



SYNERGIC



Generator Friendly-
Suitable for use with generators.



440V Tested In Production



Digital control system-the welding parameter can be control more easier and more precise.



Smart FAN-Reduce power consumption and the intake of dust and fumes.

TECHNICAL DATA (subject to change without notice.)

	Multi-GMAW 200 LCD PFC					
	1-110/120/130±10%			90VAC-275VAC		
Power Supply Voltage	MIG	MMA	TIG	MIG	MMA	TIG
Effective Current	24 A	18 A	18 A	18 A	20 A	14 A
Rated Input Power	4.0kVA	3.1kVA	3.1kVA	6.2kVA	7.2kVA	4.9kVA
Rated Input Current	37 A	28 A	28 A	28 A	32 A	22 A
Duty Cycle(40°C 10min)	40% 140 A	40% 100 A	40% 140 A	40% 200 A	40% 200 A	40% 200 A
	60% 115 A	60% 85 A	60% 115 A	60% 165 A	60% 165 A	60% 165 A
	100% 90 A	100% 65 A	100% 90 A	100% 130 A	100% 130 A	100% 130 A
Grid frequency	50/60Hz					
No Load Voltage	14.5(Limited)					
WELDING CURRENT RANGE	25-200 A					
WELDING VOLTAGE RANGE	10-27 V					
Efficiency	80%					
Power Factor	0.99					
Insulation class	H					
Protection class	IP 23					
Cooling	AF					
Dimensions l x w x h	510x 210 x 380mm					
Weight	15.5 kg					
Wire Diameter(MM)	Fe:0.6/0.8/1.0 Ss:0.8/0.9/1.0 Flux-Cored:0.6/0.8/0.9/1.0					
Electrode type	6013 7018					
Order information	1.0001.0551(-E)					

Innovative, robust, compact, portable, and light weight design ready to be used anywhere

Multi-GMAW 200 LCD PFC





Innovative, robust, compact, portable, and light weight design ready to be used anywhere

Multi-GMAW 250 PFC ES



Applications ✓

- Small workshops
- Light steel construction
- General repair
- Maintenance workshops

Control Panel ✓



KEY BENEFITS

- Digital display**-Digital control of all the welding parameters, user friendly icon control panel.
- Arc Stability**-Waveform control, for added stability of the arc, even at the low current.
- Protections**-Equipped with temperature, voltage and current sensors for high protection.



POWER FACTOR CORRECTION
Power factor more than 0.9 Multiple advantages such as energy saving and wider input voltage, works with 110V and 220V.



Weld steel stainless and aluminum with the optional **Spool Gun**



When the "V.R.D" mode on the output voltage only 14.5V, it's absolutely safe for welders.



Φ 300mm(20KG)
Φ 200mm(5KG)



Smart FAN-Reduce power consumption and the intake of dust and fumes.



SYNERGIC



Generator Friendly-Suitable for use with generators.



440V Tested In Production



Digital control system-the welding parameter can be control more easier and more precise.

TECHNICAL DATA (subject to change without notice.)

	Multi-GMAW 250 PFC ES					
	1-110/120/130±10%			90VAC-275VAC		
Power Supply Voltage	MIG	MMA	TIG	MIG	MMA	TIG
Effective Current	24 A	19 A	15 A	21 A	21 A	16 A
Rated Input Power	4.6kVA	4.2kVA	3.0kVA	8.3kVA	9.2kVA	6.4kVA
Rated Input Current	40 A	35 A	26 A	36 A	38 A	28 A
Duty Cycle(40°C 10min)	35% 160 A	30% 130 A	30% 140 A	30% 250 A	25% 250 A	35% 250 A
	60% 115 A	60% 90 A	60% 110 A	60% 195 A	60% 180 A	60% 195 A
	100% 90 A	100% 70 A	100% 85 A	100% 150 A	100% 140 A	100% 150 A
Grid frequency	50/60Hz					
No Load Voltage	68					
WELDING CURRENT RANGE	40-250 A					
WELDING VOLTAGE RANGE	14-26.5 V					
Efficiency	80%					
Power Factor	0.99					
Insulation class	H					
Protection class	IP 23					
Cooling	AF					
Dimensions l x w x h	618 x 240 x 445mm					
Weight	23.0 kg					
Wire Diameter(MM)	Fe:0.6/0.9/1.0/1.2 Ss:0.8/0.9/1.0/1.2 Flux-Cored:0.6/0.8/0.9/1.0/1.2					
Electrode type	6013 7018					
Order information	1.0001.0569(-E)					



Innovative, robust, compact, portable, and light weight design ready to be used anywhere

Multi-GMAW 250 PFC



Applications ✓

- Small workshops
- Light steel construction
- General repair
- Maintenance workshops

Control Panel ✓



KEY BENEFITS

Protections-Equipped with temperature, voltage and current sensors for high protection.

Arc Stability-Waveform control, for added stability of the arc, even at the low current.



POWER FACTOR CORRECTION
Power factor more than 0.9 Multiple advantages such as energy saving and wider input voltage, works with 110V and 220V.



Weld steel stainless and aluminum with the optional **Spool Gun**



When the "**V.R.D.**" mode on the output voltage only 14.5V, it's absolutely safe for welders.



Φ 300mm(20KG)
Φ 200mm(5KG)



Smart FAN-Reduce power consumption and the intake of dust and fumes.



SYNERGIC



Generator Friendly-Suitable for use with generators.



440V Tested In Production



Digital control system-the welding parameter can be control more easier and more precise.

TECHNICAL DATA (subject to change without notice.)

	Multi-GMAW 250 PFC					
	1-110/120/130±10%			90VAC-275VAC		
Power Supply Voltage	MIG	MMA	TIG	MIG	MMA	TIG
Effective Current	24 A	19 A	15 A	21 A	21 A	16 A
Rated Input Power	4.6kVA	4.2kVA	3.0kVA	8.3kVA	9.2kVA	6.4kVA
Rated Input Current	40 A	35 A	26 A	36 A	38 A	28 A
Duty Cycle(40°C 10min)	35% 160 A	30% 130 A	30% 140 A	30% 250 A	25% 250 A	35% 250 A
	60% 115 A	60% 90 A	60% 110 A	60% 195 A	60% 180 A	60% 195 A
	100% 90 A	100% 70 A	100% 85 A	100% 150 A	100% 140 A	100% 150 A
Grid frequency	50/60Hz					
No Load Voltage	68					
WELDING CURRENT RANGE	40-250 A					
WELDING VOLTAGE RANGE	14-26.5 V					
Efficiency	80%					
Power Factor	0.99					
Insulation class	H					
Protection class	IP 23					
Cooling	AF					
Dimensions l x w x h	618 x 240 x 445mm					
Weight	23.0 kg					
Wire Diameter(MM)	Fe:0.6/0.9/1.0/1.2 Ss:0.8/0.9/1.0/1.2 Flux-Cored:0.6/0.8/0.9/1.0/1.2					
Electrode type	6013 7018					
Order information	1.0001.0565(-E)					



Applications ✓

- Heavy Fabrication
- Structural
- General Fabrication
- Shipbuilding

Control Panel ✓



KEY BENEFITS

- **LCD Display**-4.3-inch screen with rich color.
- **Pool Gun**-Capable of loading up to 5Kg Pool.
- **Protections**-Equipped with temperature, voltage and current sensors for high protection.
- **Arc Stability**-Waveform control, for added stability of the arc, even at the low current.



POWER FACTOR CORRECTION
Power factor more than 0.9 Multiple advantages such as energy saving and wider input voltage, works with 110V and 220v .



Weld steel stainless and aluminum with the optional **Pool Gun**



When the "V.R.D" mode on the output voltage only 14.5V, it's absolutely safe for welders .



Φ 300mm(20KG)
Φ 200mm(5KG)



Generator Friendly-Suitable for use with generators .



Digital control system-the welding parameter can be control more easier and more precise .



440V Tested In Production



Smart FAN-Reduce power consumption and the intake of dust and fumes .

TECHNICAL DATA (subject to change without notice.)

	Multi-GMAW 250 LCD PFC					
	90VAC-275VAC					
Power Supply Voltage	1-110/120/130±10%			1-220/230/240±10%		
	MIG	MMA	TIG	MIG	MMA	TIG
Effective Current	26 A	21 A	20 A	27 A	31 A	22 A
Rated Input Power	4.1kVA	3.3kVA	3.2kVA	7.9kVA	8.9kVA	6.3kVA
Rated Input Current	34 A	27 A	26 A	35 A	40 A	28 A
Duty Cycle(40°C 10min)	60% 150 A	60% 110 A	60% 150 A	60% 250 A	60% 250 A	60% 250 A
	100% 120 A	100% 85 A	100% 120 A	100% 195 A	100% 195 A	100% 195 A
Grid frequency	50/60Hz					
No Load Voltage	68					
WELDING CURRENT RANGE	40-150 A	10-110 A	10-150 A	40-250 A	10-250 A	10-250 A
WELDING VOLTAGE RANGE	19-30 V					
Efficiency	80%					
Power Factor	0.99					
Insulation class	H					
Protection class	IP 23					
Cooling	AF					
Dimensions l x w x h	630x 240 x 445mm					
Weight	25.5 kg					
Wire Diameter(MM)	Fe:0.6/0.8/1.0/1.2 Ss:0.8/0.9/1.0/1.2 Flux-Cored:0.6/0.8/0.9/1.0/1.2					
Electrode type	6013 7018					
Order information	1.0001.0570(-E)					

Innovative, robust, compact, portable, and light weight design ready to be used anywhere

Multi-GMAW 250 LCD PFC



MANY TASKS
Many-
Location



Applications ✓

- Heavy Fabrication
- Structural
- General Fabrication
- Shipbuilding

Control Panel ✓



KEY BENEFITS

- **Dual pulse**-Allows to activate devoted pulse curves for aluminum, mild steel and CuSi3.
- **Protections**-Equipped with temperature, voltage and current sensors for high protection.
- **Protections**-Equipped with temperature, voltage and current sensors for high protection.
- **Accessories**-Optional trolley and water cooling unit.
- **Arc Stability**-Waveform control, for added stability of the arc, even at the low current.



Φ 200mm(5KG)



Weld steel stainless and aluminum with the optional **Spool Gun**



Dual Pulse-Allows to activate devoted pulse curves for aluminum, mild steel and CuSi3.



Generator Frienly-Suitable for use with generators .



Heavy Duty Cycle 60%



SYNERGIC



440V Tested In Production



When you have a wrong grid voltage, the machine will stop work immediately and the key core will be protected from damage especially the **IGBT** .



Smart FAN-Reduce power consumption and the intake of dust and fumes .



POWER FACTOR CORRECTION- Power factor more than 0.9 Multiple advantages such as energy saving and wider input voltage, works with 110V and 220v .

TECHNICAL DATA (subject to change without notice.)

Power Supply Voltage	Multi-GMAW 200 DP PFC					
	90VAC-275VAC			1-220/230/240±10%		
	MIG	MMA	TIG	MIG	MMA	TIG
Effective Current	20 A	15 A	16 A	15 A	15 A	12 A
Rated Input Power	4.0kVA	3.5kVA	3.2kVA	6.2kVA	6.2kVA	4.2kVA
Rated Input Current	33 A	28 A	25 A	27 A	30 A	20 A
Duty Cycle(40°C 10min)	30% 140 A	30% 110 A	40% 110 A	30% 200 A	30% 200 A	40% 200 A
	60% 110 A	60% 80 A	60% 115 A	60% 145 A	60% 145 A	60% 165 A
	100% 85 A	100% 65 A	100% 90 A	100% 110 A	100% 110 A	100% 130 A
Grid frequency	50/60Hz					
No Load Voltage	61					
WELDING CURRENT RANGE	10-140 A	10-110 A	10-150 A	40-200 A	10-200 A	10-200 A
WELDING VOLTAGE RANGE	14-24 V					
Efficiency	80%					
Power Factor	0.99					
Insulation class	H					
Protection class	IP 23					
Cooling	AF					
Dimensions l x w x h	511 x 213 x 400mm					
Weight	18.0 kg					
Wire Diameter(MM)	Fe:0.6/0.8/0.9/1.0 Ss:0.8/1.0 Flux-Cored:0.8/0.9/1.0 Al:0.8/0.9/1.0/1.2					
Electrode type	6013 7018					
Order information	1.0001.0579(Gas)		1.0001.0580(Water)			

Innovative, robust, compact, portable, and light weight design ready to be used anywhere

Multi-GMAW 200 DP PFC





Applications ✓

- Heavy and medium metal workshops
- Metallic structures
- Solar and wind industry
- Shipbuilding and offshore
- Automobile industry
- Aerospace, railway, mining and industry
- Pipelines
- Services, repair and maintenance

Control Panel ✓



KEY BENEFITS

- **Dual pulse**-Allows to activate devoted pulse curves for aluminum, mild steel and CuSi3.
- **Protections**-Equipped with temperature, voltage and current sensors for high protection.
- **Accessories**-Optional trolley and water cooling unit or the tool box unit.
- **Arc Stability**-Waveform control, for added stability of the arc, even at the low current.



POWER FACTOR CORRECTION

Power factor more than 0.9 Multiple advantages such as energy saving and wider input voltage, works with 110V and 220v.



Φ 300mm(20KG)
Φ 200mm(5KG)



SYNERGIC



Generator Friendly-
Suitable for use with
generators .



440V Tested In Production



Dual Pulse



Digital control system-the
welding parameter can be
control more easier and
more precise.



Smart FAN-Reduce power consumption and the intake of
dust and fumes.



Weld steel stainless and
aluminum with the
optional **Spool Gun**

TECHNICAL DATA (subject to change without notice.)

Power Supply Voltage	Multi-GMAW 200 DP PFC						Multi-GMAW 250 DP PFC					
	90VAC-275VAC						90VAC 275VAC					
	1-110/120/130±10%			1-220/230/240±10%			1-110/120/130±10%			1-220/230/240±10%		
Effective Current	MIG 20 A	MMA 15 A	TIG 16 A	MIG 15 A	MMA 15 A	TIG 12 A	MIG 26 A	MMA 21 A	TIG 17 A	MIG 21 A	MMA 21 A	TIG 17 A
Rated Input Power	4.0kVA	3.5kVA	3.2kVA	6.2kVA	6.2kVA	4.2kVA	4.6kVA	2.8kVA	3.8kVA	8.3kVA	6.4kVA	8.6kVA
Rated Input Current	33 A	28 A	25 A	27 A	30 A	20 A	47 A	35 A	28 A	36 A	38 A	28 A
Duty Cycle(40°C 10min)	30% 140 A	30% 110 A	40% 150 A	30% 200 A	25% 200 A	35% 200 A	30% 160 A	35% 130 A	35% 140 A	30% 250 A	35% 250 A	35% 250 A
	60% 110 A	60% 80 A	60% 125 A	60% 145 A	60% 130 A	60% 155 A	60% 115 A	60% 100 A	60% 100 A	60% 195 A	60% 195 A	60% 195 A
	100% 85 A	100% 65 A	100% 95 A	100% 110 A	100% 100 A	100% 120 A	100% 90 A	100% 80 A	100% 80 A	100% 150 A	100% 140 A	100% 150 A
Grid frequency	50/60Hz						50/60Hz					
No Load Voltage	61						65					
WELDING CURRENT RANGE	10-140 A	10-110 A	10-150 A	40-200 A	10-200 A	10-200 A	40-250 A					
WELDING VOLTAGE RANGE	14-24 V						14-26.5 V					
Efficiency	80%						80%					
Power Factor	0.99						0.99					
Insulation class	H						H					
Protection class	IP 23						IP 23					
Cooling	AF						AF					
Dimensions l x w x h	511 x 213 x 400mm						511 x 213 x 400mm					
Weight	20.0 kg						27.0 kg					
Wire Diameter(MM)	Fe:0.6/0.8/0.9/1.0 Ss:0.8/1.0 Flux-Cored:0.8/0.9/1.0 Al:0.8/0.9/1.0/1.2						Fe:0.6/0.9/1.0/1.2 Ss:0.8/0.9/1.0/1.2 Flux-Cored:0.6/0.8/0.9/1.0/1.2					
Electrode type	6013 7018						6013 7018					
Order information	1.0001.0579(Gas)						1.0001.0581(Gas)					

Superior quality welding with advanced processes and features

Multi-GMAW 200/250 DP PFC





Applications ✓

- Heavy and medium metal workshops
- Metallic structures
- Solar and wind industry
- Shipbuilding and offshore
- Automobile industry
- Aerospace, railway, mining and industry
- Pipelines
- Services, repair and maintenance

Control Panel ✓



KEY BENEFITS

- **Dual pulse**-Allows to activate devoted pulse curves for aluminum, mild steel and CuSi3.
- **Accessories**-Optional trolley and water cooling unit or the tool box unit.
- **Protections**-Equipped with temperature, voltage and current sensors for high protection.
- **Arc Stability**-Waveform control, for added stability of the arc, even at the low current.



POWER FACTOR CORRECTION

Power factor more than 0.9 Multiple advantages such as energy saving and wider input voltage, works with 110V and 220v.



Φ 300mm(20KG)
Φ 200mm(5KG)



SYNERGIC



Dual Pulse



Generator Friendly-Suitable for use with generators.



440V Tested In Production



Digital control system-the welding parameter can be control more easier and more precise.



Smart FAN-Reduce power consumption and the intake of dust and fumes.



Weld steel stainless and aluminum with the optional **Spool Gun**

TECHNICAL DATA (subject to change without notice.)

Power Supply Voltage	Multi-GMAW 200 DP PFC LCD						Multi-GMAW 250 DP PFC LCD					
	90VAC-275VAC						90VAC 275VAC					
	1-110/120/130±10%			1-220/230/240±10%			1-110/120/130±10%			1-220/230/240±10%		
Effective Current	MIG 20 A	MMA 15 A	TIG 16 A	MIG 15 A	MMA 15 A	TIG 12 A	MIG 26 A	MMA 21 A	TIG 17 A	MIG 21 A	MMA 21 A	TIG 17 A
Rated Input Power	4.0kVA	3.5kVA	3.2kVA	6.2kVA	6.2kVA	4.2kVA	4.6kVA	2.8kVA	3.8kVA	8.3kVA	6.4kVA	8.6kVA
Rated Input Current	33 A	28 A	25 A	27 A	30 A	20 A	47 A	35 A	28 A	36 A	38 A	28 A
Duty Cycle(40°C 10min)	30% 140 A	30% 110 A	40% 150 A	30% 200 A	25% 200 A	35% 200 A	30% 160 A	35% 130 A	35% 140 A	30% 250 A	35% 250 A	35% 250 A
	60% 110 A	60% 80 A	60% 125 A	60% 145 A	60% 130 A	60% 155 A	60% 115 A	60% 100 A	60% 100 A	60% 195 A	60% 195 A	60% 195 A
	100% 85 A	100% 65 A	100% 95 A	100% 110 A	100% 100 A	100% 120 A	100% 90 A	100% 80 A	100% 80 A	100% 150 A	100% 140 A	100% 150 A
Grid frequency	50/60Hz						50/60Hz					
No Load Voltage	61						65					
WELDING CURRENT RANGE	10-140 A	10-110 A	10-150 A	40-200 A	10-200 A	10-200 A	40-250 A					
WELDING VOLTAGE RANGE	14-24 V						14-26.5 V					
Efficiency	80%						80%					
Power Factor	0.99						0.99					
Insulation class	H						H					
Protection class	IP 23						IP 23					
Cooling	AF						AF					
Dimensions l x w x h	511 x 213 x 400mm						511 x 213 x 400mm					
Weight	20.0 kg						27.0 kg					
Wire Diameter(MM)	Fe:0.6/0.8/0.9/1.0 Ss:0.8/1.0 Flux-Cored:0.8/0.9/1.0 Al:0.8/0.9/1.0/1.2						Fe:0.6/0.9/1.0/1.2 Ss:0.8/0.9/1.0/1.2 Flux-Cored:0.6/0.8/0.9/1.0/1.2					
Electrode type	6013 7018						6013 7018					
Order information	1.0001.0579(Gas)						1.0001.0581(Gas)					

Superior quality welding with advanced processes and features

Multi-GMAW 200/250 DP PFC LCD





Applications ✓

- Heavy and medium metal workshops
- Metallic structures
- Solar and wind industry
- Shipbuilding and offshore
- Automobile industry
- Aerospace, railway, mining and industry
- Pipelines
- Services, repair and maintenance

Control Panel ✓



KEY BENEFITS

- Dual pulse**-Allows to activate devoted pulse curves for alluminum, mild steel and CuSi3.
- Protections**-Equipped with temperature, voltage and current sensors for high protection.
- Accessories**-Optional trolley and water cooling unit or the tool box unit.
- Arc Stability**-Waveform control, for added stability of the arc, even at the low current.



Φ 300mm(20KG)
Φ 200mm(5KG)



Weld steel stainless and aluminum with the optional **Spool Gun**



Standard tripple phase
3-400V 50/60Hz power supply.



Generator Frienly-
Suitable for use with generators .



Heavy Duty Cycle 60%



SYNERGIC



550V Tested In Production



Smart FAN-Reduce power comsuncption and the intake of dust and fames.



Dual Pulse-Allows to activate devoted pulse curves for alluminum, mild steel and CuSi3.



When you have a wrong gird voltege, the machine will stop work immediately and the key core will be protected from damage especially the IGBT.

TECHNICAL DATA (subject to change without notice.)

	Multi-GMAW 250-3 DP			Multi-GMAW 300-3 DP			Multi-GMAW 350-3 DP		
Power Supply Voltage	3-400			3-400			3-400		
	MIG	MMA	TIG	MIG	MMA	TIG	MIG	MMA	TIG
Effective Current	12 A	14 A	10 A	15.5 A	17.8 A	9.3 A	18 A	20 A	15 A
Rated Input Power	7.4kVA	8.9kVA	6.1kVA	10.2kVA	11.2kVA	7.8kVA	11.1kVA	14kVA	9.8kVA
Rated Input Current	15 A	18 A	13 A	20 A	23 A	17 A	23 A	26 A	20 A
Duty Cycle(40°C 10min)	60% 250 A			60% 300 A			60% 350 A		
	100% 195 A			100% 232 A			100% 275 A		
Grid frequency	50/60Hz			50/60Hz			50/60Hz		
No Load Voltage	15			15			15		
WELDING CURRENT RANGE	15-250 A			15-300 A			10-350 A		
WELDING VOLTAGE RANGE	16-26.5 V(MMA/TIG) 100 V(MIG)			16-26.5 V(MMA/TIG) 100 V(MIG)			16-26.5 V(MMA/TIG) 100 V(MIG)		
Efficiency	80%			80%			80%		
Power Factor	0.70			0.70			0.70		
Insulation class	H			H			H		
Protection class	IP 23			IP 23			IP 23		
Cooling	AF			AF			AF		
Dimensions l x w x h	670 x 240 x 450mm			670 x 240 x 450mm			670 x 240 x 450mm		
Weight	26.0 kg			26.0 kg			26.0 kg		
Wire Diameter(MM)	Fe:0.6/0.8/0.9/1.0/1.2 Ss:0.8/1.0 Flux-Cored:0.6/0.8/0.9/1.0/1.2 Al:1.0/1.2			Fe:0.6/0.8/0.9/1.0/1.2 Ss:0.8/1.0 Flux-Cored:0.6/0.8/0.9/1.0/1.2 Al:1.0/1.2			Fe:0.6/0.8/0.9/1.0/1.2 Ss:0.8/1.0 Flux-Cored:0.6/0.8/0.9/1.0/1.2 Al:1.0/1.2		
Electrode type	6013 7018			6013 7018			6013 7018		
Order information	1.0001.0575(-E)			1.0001.0583(-E)			1.0001.0586(-E)		

Superior quality welding with advanced processes and faetures

Multi-GMAW 250-3/300-3/350-3 DP





Superior quality welding with advanced processes and features

Multi-GMAW 250-3/300-3/350-3 DP LCD



Applications ✓

- Heavy and medium metal workshops
- Metallic structures
- Solar and wind industry
- Shipbuilding and offshore
- Automobile industry
- Aerospace, railway, mining and industry
- Pipelines
- Services, repair and maintenance

Control Panel ✓



KEY BENEFITS

- **Dual pulse**-Allows to activate devoted pulse curves for aluminum, mild steel and CuSi3.
- **Protections**-Equipped with temperature, voltage and current sensors for high protection.
- **Accessories**-Optional trolley and water cooling unit or the tool box unit.
- **Arc Stability**-Waveform control, for added stability of the arc, even at the low current.



Φ 300mm(20KG)
Φ 200mm(5KG)



Weld steel stainless and aluminum with the optional **Spool Gun**



Standard tripple phase **3-400V 50/60Hz** power supply.



Generator Frienly-Suitable for use with generators .



Heavy Duty Cycle 60%



SYNERGIC



550V Tested In Production



Smart FAN-Reduce power comsuncption and the intake of dust and fumes.



Dual Pulse-Allows to activate devoted pulse curves for aluminum, mild steel and CuSi3.



When you have a wrong grid voltage, the machine will stop work immediately and the key core will be protected from damage especially the IGBT.

TECHNICAL DATA (subject to change without notice.)

	Multi-GMAW 250-3 DP LCD			Multi-GMAW 300-3 DP LCD			Multi-GMAW 350-3 DP LCD		
Power Supply Voltage	3-400			3-400			3-400		
	MIG	MMA	TIG	MIG	MMA	TIG	MIG	MMA	TIG
Effective Current	12 A	14 A	10 A	15.5 A	17.8 A	9.3 A	18 A	20 A	15 A
Rated Input Power	7.4kVA	8.9kVA	6.1kVA	10.2kVA	11.2kVA	7.8kVA	11.1kVA	14kVA	9.8kVA
Rated Input Current	15 A	18 A	13 A	20 A	23 A	17 A	23 A	26 A	20 A
Duty Cycle(40°C 10min)	60% 250 A			60% 300 A			60% 350 A		
	100% 195 A			100% 232 A			100% 275 A		
Grid frequency	50/60Hz			50/60Hz			50/60Hz		
No Load Voltage	15			15			15		
WELDING CURRENT RANGE	15-250 A			15-300 A			10-350 A		
WELDING VOLTAGE RANGE	16-26.5 V(MMA/TIG) 100 V(MIG)			16-26.5 V(MMA/TIG) 100 V(MIG)			16-26.5 V(MMA/TIG) 100 V(MIG)		
Efficiency	80%			80%			80%		
Power Factor	0.70			0.70			0.70		
Insulation class	H			H			H		
Protection class	IP 23			IP 23			IP 23		
Cooling	AF			AF			AF		
Dimensions l x w x h	670 x 240 x 450mm			670 x 240 x 450mm			670 x 240 x 450mm		
Weight	26.0 kg			26.0 kg			26.0 kg		
Wire Diameter(MM)	Fe:0.6/0.8/0.9/1.0/1.2 Ss:0.8/1.0 Flux-Cored:0.6/0.8/0.9/1.0/1.2 Al:1.0/1.2			Fe:0.6/0.8/0.9/1.0/1.2 Ss:0.8/1.0 Flux-Cored:0.6/0.8/0.9/1.0/1.2 Al:1.0/1.2			Fe:0.6/0.8/0.9/1.0/1.2 Ss:0.8/1.0 Flux-Cored:0.6/0.8/0.9/1.0/1.2 Al:1.0/1.2		
Electrode type	6013 7018			6013 7018			6013 7018		
Order information	1.0001.0575(-E)			1.0001.0583(-E)			1.0001.0586(-E)		



Superior quality welding with advanced processes and faetures

Multi-GMAW 350 DP DV



Applications ✓

- Heavy and medium metal workshops
- Metallic structures
- Solar and wind industry
- Shipbuilding and offshore
- Automobile industry
- Aerospace, railway, mining and industry
- Pipelines
- Services, repair and maintenance

Control Panel ✓



KEY BENEFITS

- Dual pulse**-Allows to activate devoted pulse curves for alluminum, mild steel and CuSi3.
- Protections**-Equipped with temperature, voltage and current sensors for high protection.
- Accessories**-Optional trolley and water cooling unit or the tool box unit.
- Arc Stability**-Waveform control, for added stability of the arc, even at the low current.



Smart FAN-Reduce power consuncption and the intake of dust and fames.



Φ 300mm(20KG)
Φ 200mm(5KG)



Standard tripple phase
3-400V 50/60Hz power supply.



Generator Frienly-
Suitable for use with generators.



550V Tested In Production



Weld steel stainless and aluminum with the optional **Spool Gun**



Dual Pulse-Allows to activate devoted pulse curves for alluminum, mild steel and CuSi3.



Digital control system-the welding parameter can be control more easier and more precise.

TECHNICAL DATA (subject to change without notice.)

	Multi-GMAW 350 DP DV					
Power Supply Voltage	3-230V±10%			3-230V±10%		
	MIG	MMA	TIG	MIG	MMA	TIG
Effective Current	19.9 A	20.6 A	16.5 A	14.5 A	15.7 A	11 A
Rated Input Power	10.2kVA	11.3kVA	7.8kVA	12.8kVA	14kVA	10kVA
Rated Input Current	31.4 A	32.6 A	26.1 A	22.9 A	24.9 A	17.4 A
Duty Cycle(40℃ 10min)	40% 300 A			30% 200 A		35% 200 A
	60% 245 A			60% 145 A		60% 130 A
	100% 190 A			100% 110 A		100% 100 A
Grid frequency	50/60Hz					
No Load Voltage	14.5 V					
WELDING CURRENT RANGE	20-300 A	10-300 A		40-200 A	10-200 A	
Efficiency	80%					
Power Factor	0.99					
Insulation class	H					
Protection class	IP 23					
Cooling	AF					
Dimensions l x w x h	660 x 240 x 480mm					
Weight	29.0 kg					
Wire Diameter(MM)	Fe:0.6/0.8/0.9/1.0/1.2/1.6 Flux-Cored:0.8/0.9/1.0			Fe:0.6/0.8/0.9/1.0/1.2/1.6 Ss:0.8/1.0/1.2/1.6 Flux-Cored:0.8/0.9/1.0		
Electrode type	6013 7018					
Order information	1.0001.6597(-E)					



Superior quality welding with advanced processes and faetures

Multi-GMAW 350 DP DV LCD



Applications ✓

- Heavy and medium metal workshops
- Metallic structures
- Solar and wind industry
- Shipbuilding and offshore
- Automobile industry
- Aerospace, railway, mining and industry
- Pipelines
- Services, repair and maintenance

Control Panel ✓



KEY BENEFITS

- Dual pulse**-Allows to activate devoted pulse curves for alluminum, mild steel and CuSi3.
- Protections**-Equipped with temperature, voltage and current sensors for high protection.
- Accessories**-Optional trolley and water cooling unit or the tool box unit.
- Arc Stability**-Waveform control, for added stability of the arc, even at the low current.



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Φ 200mm(5KG)



Standard tripple phase
3-400V 50/60Hz power supply.



Generator Frienly-Suitable for use with generators.



550V Tested In Production



Weld steel stainless and aluminum with the optional **Spool Gun**



Dual Pulse-Allows to activate devoted pulse curves for alluminum, mild steel and CuSi3.



Digital control system-the welding parameter can be control more easier and more precise.

TECHNICAL DATA (subject to change without notice.)

	Multi-GMAW 350 DP DV LCD					
Power Supply Voltage	3-230V±10%			3-230V±10%		
	MIG	MMA	TIG	MIG	MMA	TIG
Effective Current	19.9 A	20.6 A	16.5 A	14.5 A	15.7 A	11 A
Rated Input Power	10.2kVA	11.3kVA	7.8kVA	12.6kVA	14kVA	10kVA
Rated Input Current	31.4 A	32.6 A	26.1 A	22.9 A	24.9 A	17.4 A
Duty Cycle(40°C 10min)	40% 300 A			30% 200 A	25% 200 A	35% 200 A
	60% 245 A			60% 145 A	60% 130 A	60% 155 A
	100% 190 A			100% 110 A	100% 100 A	100% 120 A
Grid frequency	50/60Hz					
No Load Voltage	14.5 V					
WELDING CURRENT RANGE	20-300 A	10-300 A		40-200 A	10-200 A	
Efficiency				80%		
Power Factor				0.99		
Insulation class				H		
Protection class				IP 23		
Cooling				AF		
Dimensions l x w x h	660 x 240 x 480mm					
Weight	29.0 kg					
Wire Diameter(MM)	Fe:0.6/0.8/0.9/1.0/1.2/1.6 Ss:0.8/1.0/1.2/1.6			Fe:0.6/0.8/0.9/1.0/1.2/1.6 Ss:0.8/1.0/1.2/1.6		
	Flux-Cored:0.8/0.9/1.0 Al:0.8/0.9/1.0/1.2			Flux-Cored:0.8/0.9/1.0 Al:0.8/0.9/1.0/1.2		
Electrode type	6013 7018					
Order information						

**MANY TASKS
Many-
Location**



Applications ✓

- Heavy and medium metal workshops
- Metallic structures
- Solar and wind industry
- Shipbuilding and offshore
- Automobile industry
- Aerospace, railway, mining and industry
- Pipelines
- Services, repair and maintenance

Control Panel ✓



KEY BENEFITS

- Dual pulse**-Allows to activate devoted pulse curves for alluminum, mild steel and CuSi3.
- Accessories**-Optional trolley and water cooling unit.
- Protections**-Equipped with temperature, voltage and current sensors for high protection.
- Arc Stability**-Waveform control, for added stability of the arc, even at the low current.



When you have a wrong grid voltage, the machine will stop work immediately and the key core will be protected from damage especially the IGBT.



Standard tripple phase
3-400V 50/60Hz power
supply.



Dual Pulse



Φ 300mm(20KG)
Φ 200mm(5KG)



IGBT Module



SYNERGIC



Generator Friendly-
Suitable for use with
generators.



550V Tested In Production



Heavy Duty Cycle 60%



Smart FAN-Reduce power consuncption and the intake of dust and fumes.

TECHNICAL DATA (subject to change without notice.)

	Multi-GMAW 350S EP			Multi-GMAW 400S EP			Multi-GMAW 500S EP		
Power Supply Voltage	3-400			90VAC-275VAC			90VAC 275VAC		
	MIG	TIG	MIG	MMA	MIG	MMA	TIG	MMA	TIG
Effective Current	18 A	20 A	16 A	26 A	26 A	21 A	33 A	34 A	27 A
Rated Input Power	12.8kVA	14kVA	10kVA	15.5kVA	16.5kVA	12kVA	23kVA	23kVA	16kVA
Rated Input Current	23 A	26 A	20 A	33 A	33 A	27 A	44 A	44 A	35 A
Duty Cycle(40°C 10min)	60% 80 A			60% 400 A			60% 500 A		
	100% 65 A			100% 310 A			100% 400 A		
Grid frequency	50/60Hz			50/60Hz			50/60Hz		
No Load Voltage	67(MIG)			81(MIG)			68(MIG) 14.5(MMA/TIG)		
WELDING CURRENT RANGE	15-350 A(MIG)			15-400 A(MIG)			15-500 A(MIG)		
WELDING VOLTAGE RANGE	14-35 V(MIG)			15-40 V(MIG)			14-50 V(MIG)		
Efficiency	85%			85%			85%		
Power Factor	0.70			0.75			0.75		
Insulation class	H			H			H		
Protection class	IP 23			IP 23			IP 23		
Cooling	AF			AF			AF		
Dimensions l x w x h	560 x 240 x 445mm			560 x 240 x 445mm			605 x 240 x 445mm		
Weight	22.0 kg			23.5 kg			32.5 kg		
Wire Diameter(MM)	Fe:0.6/0.9/1.0/1.2 Ss:0.8/0.9/1.0/1.2 Flux-Cored:0.6/0.8/0.9/1.0/1.2			Fe:0.6/0.9/1.0/1.2 Ss:0.8/0.9/1.0/1.2 Al:1.0/1.2 Flux-Cored:0.6/0.8/0.9/1.0/1.2			Fe:0.6/0.9/1.0/1.2/1.5 Ss:0.8/0.9/1.0/1.2/1.6 Flux-Cored:0.6/0.8/0.9/1.0/1.2/1.5		
Electrode type	6013 7018			6013 7018			6013 7018		
Order information									

Superior quality welding with advanced processes and faetures

Multi-GMAW 350S/400S/500S EP



Flux-cord



Applications ✓

- Heavy and medium metal workshops
- Metallic structures
- Solar and wind industry
- Shipbuilding and offshore
- Automobile industry
- Aerospace, railway, mining and industry
- Pipelines
- Services, repair and maintenance

Control Panel ✓



KEY BENEFITS

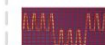
- Dual pulse**-Allows to activate devoted pulse curves for alluminum, mild steel and CuSi3.
- Accessories**-Optional trolley and water cooling unit.
- Protections**-Equipped with temperature, voltage and current sensors for high protection.
- Arc Stability**-Waveform control, for added stability of the arc, even at the low current.



When you have a wrong grid voltage, the machine will stop work immediately and the key core will be protected from damage especially the IGBT.



Standard tripple phase
3-400V 50/60Hz power supply.



Dual Pulse



Φ 300mm(20KG)
Φ 200mm(5KG)



IGBT Module



SYNERGIC



Generator Friendly-Suitable for use with generators.



550V Tested In Production



Heavy Duty Cycle 60%



Smart FAN-Reduce power consunption and the intake of dust and fames.

TECHNICAL DATA (subject to change without notice.)

	Multi-GMAW 350S DP			Multi-GMAW 400S DP			Multi-GMAW 500S DP		
Power Supply Voltage	3-400			90VAC-275VAC			90VAC 275VAC		
	MIG	TIG	MIG	MMA	MIG	MMA	TIG	MMA	TIG
Effective Current	18 A	20 A	16 A	26 A	26 A	21 A	33 A	34 A	27 A
Rated Input Power	12.8kVA	14kVA	10kVA	15.5kVA	16.5kVA	12kVA	23kVA	23kVA	16kVA
Rated Input Current	23 A	26 A	20 A	33 A	33 A	27 A	44 A	44 A	35 A
Duty Cycle(40°C 10min)	60% 80 A			60% 400 A			60% 500 A		
	100% 65 A			100% 310 A			100% 400 A		
Grid frequency	50/60Hz			50/60Hz			50/60Hz		
No Load Voltage	67(MIG)			81(MIG)			68(MIG) 14.5(MMA/TIG)		
WELDING CURRENT RANGE	15-350 A(MIG)			15-400 A(MIG)			15-500 A(MIG)		
WELDING VOLTAGE RANGE	14-35 V(MIG)			15-40 V(MIG)			14-50 V(MIG)		
Efficiency	85%			85%			85%		
Power Factor	0.70			0.75			0.75		
Insulation class	H			H			H		
Protection class	IP 23			IP 23			IP 23		
Cooling	AF			AF			AF		
Dimensions l x w x h	560 x 240 x 445mm			560 x 240 x 445mm			605 x 240 x 445mm		
Weight	22.0 kg			23.5 kg			32.5 kg		
Wire Diameter(MM)	Fe:0.6/0.9/1.0/1.2 Ss:0.8/0.9/1.0/1.2 Flux-Cored:0.6/0.8/0.9/1.0/1.2			Fe:0.6/0.9/1.0/1.2 Ss:0.8/0.9/1.0/1.2 Al:1.0/1.2 Flux-Cored:0.6/0.8/0.9/1.0/1.2			Fe:0.6/0.9/1.0/1.2/1.5 Ss:0.8/0.9/1.0/1.2/1.5 Flux-Cored:0.6/0.8/0.9/1.0/1.2/1.5		
Electrode type	6013 7018			6013 7018			6013 7018		
Order information									

Superior quality welding with advanced processes and faetures

Multi-GMAW 350S/400S/500S DP





4IN1

- Applications** ✓
- Heavy and medium metal workshops
 - Metallic structures
 - Solar and wind industry
 - Shipbuilding and offshore
 - Automobile industry
 - Aerospace, railway, mining and industry
 - Pipelines
 - Services, repair and maintenance

Control Panel ✓



Superior quality welding with advanced processes and features

Multi-GMAW 200P AC/DC PFC



MIG GMAW
INVERTER

KEY BENEFITS

■ **Protections**-Equipped with temperature, voltage and current sensors for high protection.

■ **Arc Stability**-Waveform control, for added stability of the arc, even at the low current.



When you have a wrong grid voltage, the machine will stop work immediately and the key core will be protected from damage especially the IGBT.



Smart FAN-Reduce power consumption and the intake of dust and fumes.



440V Tested In Production



Φ 200mm
(5KG)



Generator Friendly-Suitable for use with generators.



SYNERGIC



POWER FACTOR CORRECTION

Power factor more than 0.9 Multiple advantages such as energy saving and wider input voltage, works with 110V and 220V.

TECHNICAL DATA (subject to change without notice.)

Power Supply Voltage	Multi-GMAW 200P AC/DC PFC									
	1-120V±10%					1-120V±10%				
	AC		DC			AC		DC		
	MMA	TIG	MIG	MMA	TIG	MMA	TIG	MIG	MMA	TIG
Effective Current	18.2 A	16 A	17.5 A	19.7 A	17 A	15 A	10 A	14 A	17 A	11 A
Rated Input Power	3.9kVA	3.1kVA	3.5kVA	3.9kVA	3.1kVA	6.6kVA	4.4kVA	5.6kVA	6.6kVA	4.4kVA
Rated Input Current	36.5 A	31.5 A	35 A	39.5 A	33.5 A	30.5 A	21 A	28 A	33.5 A	22.5 A
Duty Cycle(40°C 10min)	25% 130 A	25% 160 A	25% 140 A	25% 130 A	25% 160 A	25% 200 A	25% 200 A	25% 200 A	25% 200 A	25% 200 A
	60% 85 A	60% 104 A	60% 91 A	60% 85 A	60% 104 A	60% 130 A	60% 130 A	60% 130 A	60% 130 A	60% 130 A
	100% 65 A	100% 80 A	100% 70 A	100% 65 A	100% 80 A	100% 100 A	100% 100 A	100% 100 A	100% 100 A	100% 100 A
WELDING CURRENT RANGE	5-130 A	5-160 A	10-140 A	5-130 A	5-160 A	5-200 A	5-200 A	40-200 A	5-200 A	5-200 A
WELDING VOLTAGE RANGE	14-35 V(MIG)									
Grid frequency	50/60Hz									
No Load Voltage	67(V)(MIG)									
Efficiency	85%									
Power Factor	0.70									
Insulation class	H									
Protection class	IP 23									
Cooling	AF									
Dimensions l x w x h	560 x 240 x 445mm									
Weight	22.0 kg									
Wire Diameter(MM)	Fe:0.6/0.9/1.0/1.2 Ss:0.8/0.9/1.0/1.2 Flux-Cored:0.6/0.8/0.9/1.0/1.2									
Electrode type	6013 7018									
Order information	1.0001.0620(-E)									



Superior quality welding with advanced processes and faetures

Multi-GMAW 200P AC/DC LCD PFC



Applications ✓

- Heavy and medium metal workshops
- Metallic structures
- Solar and wind industry
- Shipbuilding and offshore
- Automobile industry
- Aerospace, railway, mining and industry
- Pipelines
- Services, repair and maintenance

Control Panel ✓



KEY BENEFITS

■ **Protections**-Equipped with temperature, voltage and current sensors for high protection.

■ **Arc Stability**-Waveform control, for added stability of the arc, even at the low current.



When you have a wrong grid voltage, the machine will stop work immediately and the key core will be protected from damage especially the IGBT.



Smart FAN-Reduce power consumption and the intake of dust and fumes.



440V Tested In Production



Φ 200mm
(5KG)



Generator Friendly-Suitable for use with generators.



SYNERGIC



POWER FACTOR CORRECTION

Power factor more than 0.9 Multiple anvantages such as energy saving and wider input voltage, works with 110V and 220v.

TECHNICAL DATA (subject to change without notice.)

Power Supply Voltage	Multi-GMAW 200P AC/DC LCD PFC									
	1-120V±10%					1-120V±10%				
	AC		DC			AC		DC		
Effective Current	MMA 18.2 A	TIG 16 A	MIG 17.5 A	DC 19.7 A	TIG 17 A	MMA 15 A	TIG 10 A	MIG 14 A	DC 17 A	TIG 11 A
Rated Input Power	3.9kVA	3.1kVA	3.5kVA	3.9kVA	3.1kVA	6.6kVA	4.4kVA	5.6kVA	6.6kVA	4.4kVA
Rated Input Current	36.5 A	31.5 A	35 A	39.5 A	33.5 A	30.5 A	21 A	28 A	33.5 A	22.5 A
Duty Cycle(40°C 10min)	25% 130 A	25% 160 A	25% 140 A	25% 130 A	25% 160 A	25% 200 A	25% 200 A	25% 200 A	25% 200 A	25% 200 A
	60% 85 A	60% 104 A	60% 91 A	60% 85 A	60% 104 A	60% 130 A	60% 130 A	60% 130 A	60% 130 A	60% 130 A
	100% 65 A	100% 80 A	100% 70 A	100% 65 A	100% 80 A	100% 100 A	100% 100 A	100% 100 A	100% 100 A	100% 100 A
WELDING CURRENT RANGE	5-130 A	5-160 A	10-140 A	5-130 A	5-160 A	5-200 A	5-200 A	40-200 A	5-200 A	5-200 A
WELDING VOLTAGE RANGE	14-35 V(MIG)									
Grid frequency	50/60Hz									
No Load Voltage	67(V)(MIG)									
Efficiency	85%									
Power Factor	0.70									
Insulation class	H									
Protection class	IP 23									
Cooling	AF									
Dimensions l x w x h	560 x 240 x 445mm									
Weight	22.0 kg									
Wire Diameter(MM)	Fe:0.6/0.9/1.0/1.2 Ss:0.8/0.9/1.0/1.2 Flux-Cored:0.6/0.8/0.9/1.0/1.2									
Electrode type	6013 7018									
Order information										



Superior quality welding with advanced processes and features

Multi-GMAW 500P AC/DC CEL



Applications ✓

- Heavy and medium metal workshops
- Metallic structures
- Solar and wind industry
- Shipbuilding and offshore
- Automobile industry
- Aerospace, railway, mining and industry
- Pipelines
- Services, repair and maintenance

Control Panel ✓



KEY BENEFITS

- Dual pulse**-Allows to activate devoted pulse curves for aluminum, mild steel and CuSi3.
- Protections**-Equipped with temperature, voltage and current sensors for high protection.
- Accessories**-Optional trolley and water cooling unit.
- Arc Stability**-Waveform control, for added stability of the arc, even at the low current.



When you have a wrong grid voltage, the machine will stop work immediately and the key core will be protected from damage especially the IGBT.



Standard tripple phase
3-400V 50/60Hz power supply.



Dual Pulse



Φ 300mm(20KG)
Φ 200mm(5KG)



IGBT Module



SYNERGIC



Generator Frienly-Suitable for use with generators.



550V Tested In Production



Heavy Duty Cycle 60%



Smart FAN-Reduce power consumption and the intake of dust and fumes.

TECHNICAL DATA (subject to change without notice.)

	Multi-GMAW 500P AC/DC CEL				
	3-400 AC		3-400 DC		
Power Supply Voltage	MMA	TIG	MIG	MMA	MIG
Effective Current	32 A	26 A	36 A	37 A	29 A
Rated Input Power	23.5kVA	17.6kVA	22.9kVA	23.5kVA	17.6kVA
Rated Input Current	42 A	34 A	46 A	48 A	38 A
Duty Cycle(40°C 10min)	60% 500 A	60% 500 A	60% 500 A	60% 500 A	60% 500 A
	100% 400 A	100% 400 A	100% 400 A	100% 400 A	100% 400 A
WELDING CURRENT RANGE	10-500 A	10-500 A	20-500 A	10-500 A	10-500 A
WELDING VOLTAGE RANGE			14-35 V(MIG)		
Grid frequency			50/60Hz		
No Load Voltage			67(MIG)		
Efficiency			85%		
Power Factor			0.70		
Insulation class			H		
Protection class			IP 23		
Cooling			AF		
Dimensions l x w x h			560 x 240 x 445mm		
Weight			22.0 kg		
Wire Diameter(MM)			Fe:0.6/0.9/1.0/1.2 Ss:0.8/0.9/1.0/1.2 Flux-Cored:0.6/0.8/0.9/1.0/1.2		
Electrode type			6013 7018		
Order information					

MANY TASKS Many- Location

all as ONE
one as ALL



Superior quality welding with advanced processes and faetures

OMNI-Weldcut 2040



Applications

- Heavy and medium metal workshops
- Metallic structures
- Solar and wind industry
- Shipbuilding and offshore
- Automobile industry
- Aerospace, railway, mining and industry
- Pipelines
- Services, repair and maintenance

Control Panel ✓



KEY BENEFITS

- **Pulse**-Allows to activate devoted pulse curves for alluminum, mild steel and CuSi3.
- **Accessories**-Optional trolley and water cooling unit.
- **Protections**-Equipped with temperature, voltage and current sensors for high protection.
- **Arc Stability**-Waveform control, for added stability of the arc, even at the red low current.



When you have a wrong grid voltage, the machine will stop work immediately and the key core will be protected from damage especially the IGBT.



440V Tested In Production



Pulse



Φ 300mm(20KG)
Φ 200mm(5KG)



HF Easy ARC Striking



SYNERGIC



Generator Friendly-
Suitable for use with
generators.



Smart FAN-Reduce power consumption and the intake of dust and fumes.



POWER FACTOR CORRECTION

Power factor more than 0.9 Multiple advantages such as energy saving and wider input voltage, works with 110V and 220v.

TECHNICAL DATA(subject to change without notice.)

OMNI-WeldCut 2040											CUT Part						
90V-275V 50/60 Hz											90V-275V 50/60 Hz						
Power supply voltage (V)		1-220V				1-110V					1-220V			1-110V			
		AC		DC		AC		DC									
	MMA	TIG	MIG	MMA	TIG	MMA	TIG	MIG	MMA	TIG							
Rated Input Power(KW)	7	4.6	4.8	7.2	5	2.8	4	2.8	3.4	21	4.8			5.3			
Rated Input Current(A)max	32	21	22	33	23	26	19	26	31	19	22			24			
Rated Input Current(A)eff	16	10	11	16	11.5	13	9.5	13	15.2	9.6	11			12			
Duty Cycle (40℃ 10 Min)	25% 200A 60% 125A 100% 100A					25% 110A 60% 71A 100% 55A					25% 40A 60% 25.8A 100% 20A			25% 25A 60% 16A 100% 12.5A			
Welding Current Range(A)	10A-200A		20A-200A		10A-200A		10A-110A		20A-110A		10A-110A		20A-40A		20A-25A		
No load Voltage(V)	89					89					433						
Net Weight(kg)	26					26					433						
Dimmisions(mm)	690 x 245 x 470mm					690 x 245 x 470mm					690 x 245 x 470mm						
Insulation class	H					H					H						
Protection class	IP23					IP23					IP23						
Efficiency	80%					80%					80%						
Power Factor	0.99					0.99					0.99						
Cooling	AF					AF					AF						
Wire Diameter	Fe:0.5 0.8 0.9 1.0 Ss:0.8 0.9 1.0 Flux-Cored:0.8 0.9 1.0 Almg:0.8 0.9 1.0 1.2 Alsi:1.0 1.2 Al:1.2 CuSi:0.8 0.9 1.0																
UP/Down Slope(S)	0-10		0-10		0-10		0-10		0-10		0-10		0-10				
Pre Flow(S)	0-2		0-2		0-2		0-2		0-2		0-2		0-2				
PostFlow(S)	0-10		0-10		0-10		0-10		0-10		0-10		0-10				
Pulse Fre	0.5-999		0.5-999		0.5-999		0.5-999		0.5-999		0.5-999		0.5-999				
Pulse Width Range (Duty)	5%-95%		5%-95%		5%-95%		5%-95%		5%-95%		5%-95%		5%-95%				
AC Frequency(Hz)	50-250		50-250		50-250		50-250		50-250		50-250		50-250				
Balance	-5→+5		-5→+5		-5→+5		-5→+5		-5→+5		-5→+5		-5→+5				
Spot Time (\$)	0.1-10		0.1-10		0.1-10		0.1-10		0.1-10		0.1-10		0.1-10				
Severance Cut for Carbon Steel																	
Carbon Steel																	
Stainless Steel																	
Aluminum																	
Copper																	
Production cut (mm)																	
	<20					<10					<10						
	<18					<18					<6						
	<18					<18					<6						
	<12					<12					<4						
	<8					<8					<2						

Plasma Cutting INVERTER

Maximum efficiency and excellent cutting quality are particular features of the Hanker plasma cutting machines.

The models in the PC range equipped with the absolutely proven and patented Hanker transistor high-power switches.

Large power components and 100% tested quality guarantee the reliability of the models in the PC range in the demanding conditions found in industry and trade works.

DC INVERTER PLASMA CUTTER



**PERFECT
IGNITION
RESPONSE**

/ Less heat input
/ Less distortion



Precise, accurate, infinite amperage control and heat output

ES-PC 40 HF



Applications ✓

- On-site maintenance
- Service tasks
- Small construction sites
- General installations
- Air ducting installation (HVAC)
- Rental

Control Panel ✓



KEY BENEFITS

- **Pilot Arc Controller**-Increases cutting capabilities and speed.
- **Weight**-Reduced weight and size, easy-to-carry.
- **Protections**-Equipped with temperature, voltage and current sensors for high protection.



Generator Friendly-Suitable for use with generators.



440V Tested In Production

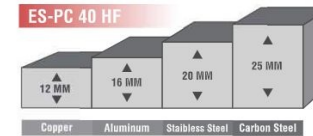


Smart FAN-Reduce power consumption and the intake of dust and fumes.



HF Easy ARC Striking-innovative, advanced arc starting with HF.

**CUTTING PERFORMANCE
-MILD STEEL**
Hand Torch



TECHNICAL DATA(subject to change without notice.)

	ES-PC 40 HF
Power Supply Voltage	160-275
Effective Current	25 A
Rated Input Power	4.9kVA
Rated Input Current	32 A
Duty Cycle(40°C, 10min)	60% 40 A
	100% 30 A
Grid frequency	50/60Hz
No Load Voltage	32 V
CUTTING CURRENT RANGE	20-40 A
Insulation class	H
Protection class	IP 23
Cooling	AF
Dimensions l x w x h	460 x 146 x 278mm
Weight	7.3 kg
Severance Cut(MM)	Carbon Steel < 25
	Carbon Steel < 20
	Stainless Steel < 20
	Aluminum < 16
	Copper < 12
Production Cut(MM)	
Order Information	

PERFECT IGNITION RESPONSE

/ Less heat input
/ Less distortion



Precise, accurate, infinite amperage control and heat output

PC 40 Pilot



Applications ✓

- On-site maintenance
- Service tasks
- Small construction sites
- General installations
- Air ducting installation (HVAC)
- Rental

Control Panel ✓



KEY BENEFITS

- **Pilot Arc Controller**-Increases cutting capabilities and speed.
- **Weight**-Reduced weight and size, easy-to-carry.
- **Protections**-Equipped with temperature, voltage and current sensors for high protection.



Generator Friendly-Suitable for use with generators.

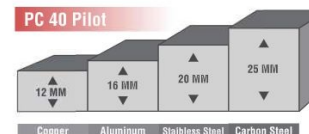


440V Tested In Production



Smart FAN-Reduce power consumption and the intake of dust and fumes.

**CUTTING PERFORMANCE
-MILD STEEL**
Hand Torch



TECHNICAL DATA (subject to change without notice.)

	PC 40 Pilot
Power Supply Voltage	160-275
Effective Current	25 A
Rated Input Power	4.9kVA
Rated Input Current	32 A
Duty Cycle(40°C 10min)	40% 40 A
	100% 30 A
Grid frequency	50/60Hz
No Load Voltage	32 V
CUTTING CURRENT RANGE	20-40 A
Insulation class	H
Protection class	IP 23
Cooling	AF
Dimensions l x w x h	460 x 146 x 278mm
Weight	7.3 kg
Severance Cut(MM)	Carbon Steel < 25
	Carbon Steel < 20
	Stainless Steel < 20
	Aluminum < 16
	Copper < 12
Production Cut(MM)	
Order Information	

**PERFECT
IGNITION
RESPONSE**
/ Less heat input
/ Less distortion



Precise, accurate, infinite amperage control and heat output

PC 40 AIR



Applications ✓

- On-site maintenance
- Service tasks
- Small construction sites
- General installations
- Air ducting installation (HVAC)
- Rental

Control Panel ✓



KEY BENEFITS

- **Pilot Arc Controller** - Increases cutting capabilities and speed.
- **Protections** - Equipped with temperature, voltage and current sensors for high protection.



Compressor inside
internal compressor or external
compressor air supply



440V Tested In Production



Standard single phase 3-400V
50/60Hz power supply.

**CUTTING PERFORMANCE
-MILD STEEL**
Hand Torch



TECHNICAL DATA (subject to change without notice.)

	PC 40 AIR
Power Supply Voltage	1-230
Effective Current	25 A
Rated Input Power	4.7kVA
Rated Input Current	32 A
Duty Cycle(40°C 10min)	40% 40 A
	100% 30 A
Grid frequency	50/60Hz
No Load Voltage	32 V
CUTTING CURRENT RANGE	20-40 A
Insulation class	H
Protection class	IP 23
Cooling	AF
Dimensions l x w x h	480 x 210 x 340mm
Weight	17.9 kg
Severance Cut(MM)	Carbon Steel < 16
	Carbon Steel < 14
	Stainless Steel < 14
	Aluminum < 14
	Copper ~ 5
Production Cut(MM)	
Order Information	

PERFECT IGNITION RESPONSE

/ Less heat input
/ Less distortion



Precise, accurate, infinite amperage control and heat output

PC 40 PFC



Applications ✓

- On-site maintenance
- Service tasks
- Small construction sites
- General installations
- Air ducting installation (HVAC)
- Rental

Control Panel ✓



POWER Technology
wider input voltage, works
with 110V and 220V

KEY BENEFITS

■ **Pilot Arc Controller**-Increases cutting capabilities and speed.

■ **Protections**-Equipped with temperature, voltage and current sensors for high protection.



POWER FACTOR CORRECTION

Power factor more than 0.9 Multiple advantages such as energy saving and wider input voltage, works with 110V and 220V.



Generator Friendly-Suitable for use with generators.



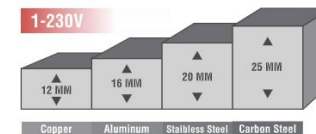
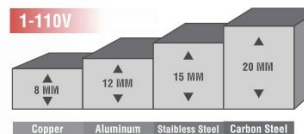
Smart FAN-Reduce power consumption and the intake of dust and fumes.



440V Tested In Production

PC 40 PFC

CUTTING PERFORMANCE
-MILD STEEL
Hand Torch



TECHNICAL DATA (subject to change without notice.)

	PC 40 PFC	
	1-110	1-230
Power Supply Voltage	1-110	1-230
Effective Current	21 A	16 A
Rated Input Power	3.8kVA	4.9kVA
Rated Input Current	35 A	23 A
Duty Cycle(40°C 10min)	35% 30 A	50% 40 A
	60% 22 A	60% 36 A
	100% 20 A	100% 30 A
Grid frequency	50/60Hz	
No Load Voltage	320 V	
CUTTING CURRENT RANGE	20-30 A	20-40 A
Insulation class	H	
Protection class	IP 23	
Cooling	AF	
Dimensions l x w x h	510 x 146 x 278mm	
Weight	8 kg	
Severance Cut(MM)	Carbon Steel <20	Carbon Steel <25
	Carbon Steel <15	Carbon Steel <20
	Stainless Steel <15	Stainless Steel <20
	Aluminum <12	Aluminum <16
	Copper <8	Copper <12
Production Cut(MM)		

Order Information



Precise, accurate, infinite amperage control and heat output

ES-PC 40 PFC



Applications ✓

- On-site maintenance
- Service tasks
- Small construction sites
- General installations
- Air ducting installation (HVAC)
- Rental

Control Panel ✓



KEY BENEFITS

- **Pilot Arc Controller**-Increases cutting capabilities and speed.
- **Protections**-Equipped with temperature, voltage and current sensors for high protection.



POWER FACTOR CORRECTION

Power factor more than 0.9 Multiple advantages such as energy saving and wider input voltage, works with 110V and 220v.



Generator Friendly-Suitable for use with generators.



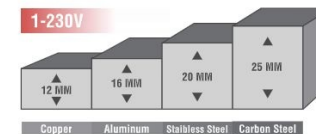
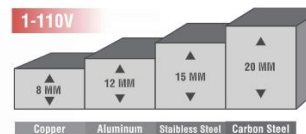
Smart FAN-Reduce power consumption and the intake of dust and fumes.



440V Tested In Production

ES-PC 40 PFC

CUTTING PERFORMANCE
-MILD STEEL
Hand Torch



TECHNICAL DATA (subject to change without notice.)

	ES-PC 40 PFC	
Power Supply Voltage	1-110	1-230
Effective Current	20 A	16 A
Rated Input Power	3.8kVA	4.9kVA
Rated Input Current	34.5 A	23 A
Duty Cycle(40°C 10min)	35% 30 A	50% 40 A
	60% 22 A	60% 36 A
	100% 20 A	100% 30 A
Grid frequency	50/60Hz	
No Load Voltage	320 V	
CUTTING CURRENT RANGE	20-30 A	20-40 A
Insulation class	H	
Protection class	IP 23	
Cooling	AF	
Dimensions l x w x h	510 x 146 x 278mm	
Weight	8 kg	
Severance Cut(MM)	Carbon Steel <20	Carbon Steel <25
	Carbon Steel <15	Carbon Steel <20
	Stainless Steel <15	Stainless Steel <20
	Aluminum <12	Aluminum <16
	Copper <8	Copper <12
Production Cut(MM)		

Order Information

1.0001.0060(-E)

PERFECT IGNITION RESPONSE

/ Less heat input
/ Less distortion



Precise, accurate, infinite amperage control and heat output

ES-PC 40 AIR PFC



Applications ✓

- On-site maintenance
- Service tasks
- Small construction sites
- General installations
- Air ducting installation (HVAC)
- Rental

Control Panel ✓



KEY BENEFITS

■ **Pilot Arc Controller** - Increases cutting capabilities and speed.

■ **Protections** - Equipped with temperature, voltage and current sensors for high protection.



Generator Friendly - Suitable for use with generators.



Compressor inside - internal compressor or external compressor air supply



Smart FAN - Reduce power consumption and the intake of dust and fumes.



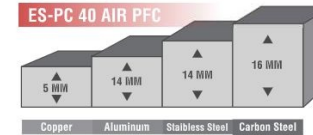
POWER FACTOR CORRECTION

Power factor more than 0.9 Multiple advantages such as energy saving and wider input voltage, works with 110V and 220v.



440V Tested In Production

CUTTING PERFORMANCE
-MILD STEEL
Hand Torch



TECHNICAL DATA (subject to change without notice.)

	ES-PC 40 AIR PFC	
	1-110	1-230
Power Supply Voltage	1-110	1-230
Effective Current	20.4 A	16 A
Rated Input Power	4.7kVA	4.9kVA
Rated Input Current	34.5 A	23 A
Duty Cycle (40°C 10min)	35% 30 A	50% 40 A
	60% 22 A	60% 36 A
	100% 20 A	100% 30 A
Grid frequency	50/60Hz	
No Load Voltage	320 V	
CUTTING CURRENT RANGE	20-40 A	
Insulation class	H	
Protection class	IP 23	
Cooling	AF	
Dimensions l x w x h	480 x 210 x 340mm	
Weight	17.9 kg	
Severance Cut (MM)	Carbon Steel <16	
Production Cut (MM)	Carbon Steel ~14	
	Stainless Steel <14	
	Aluminum <14	
	Copper < 5	
Order Information	1.0001.0060(-E)	

PERFECT IGNITION RESPONSE

/ Less heat input
/ Less distortion



Precise, accurate, infinite amperage control and heat output

ES-PC 60



Applications ✓

- On-site maintenance
- Service tasks
- Small construction sites
- General installations
- Air ducting installation (HVAC)
- Demolition work
- Rental

Control Panel ✓



KEY BENEFITS

- **Heavy Duty Cycle**-Duty is more than 90%.
- **Pilot Arc Controller**-increases cutting capabilities and speed.
- **Protections**-Equipped with temperature, voltage and current sensors for high protection.



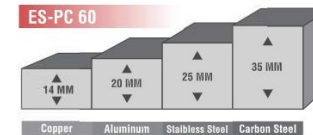
Generator Friendly-
Suitable for use with
generators.



Standard tripple phase
3-400V 50/60Hz power
supply.

Smart FAN-Reduce power
consumption and the intake of dust
and fumes.

CUTTING PERFORMANCE
-MILD STEEL
Hand Torch



TECHNICAL DATA (subject to change without notice.)

	ES-PC 60
Power Supply Voltage	3-400
Effective Current	17 A
Rated Input Power	7.8kVA
Rated Input Current	15.7 A
Duty Cycle(40°C 10min)	40% 60 A
	60% 30.6 A
	100% 23.7 A
Grid frequency	50/60Hz
No Load Voltage	440 V
CUTTING CURRENT RANGE	20-60 A
Insulation class	H
Protection class	IP 23
Cooling	AF
Dimensions l x w x h	640 x 240 x 445mm
Weight	24 kg
Severance Cut(NM)	Carbon Steel < 35
	Carbon Steel < 25
	Stainless Steel < 25
	Aluminum < 20
	Copper < 14
Production Cut(NM)	
Order Information	



Precise, accurate, infinite amperage control and heat output

PC 60-1 (CNC)



Applications ✓

- On-site maintenance
- Service tasks
- Small construction sites
- General installations
- Air ducting installation (HVAC)
- Demolition work
- Rental

Control Panel ✓



KEY BENEFITS

- **Heavy Duty Cycle**-Duty is more than 90%.
- **Pilot Arc Controller**-increases cutting capabilities and speed.
- **Protections**-Equipped with temperature, voltage and current sensors for high protection.

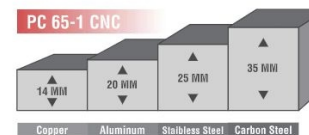


CNC Option



Standard single phase 1-220V
50/60Hz power supply.

CUTTING PERFORMANCE
-MILD STEEL
Hand Torch



TECHNICAL DATA (subject to change without notice.)

	PC 60-1 (CNC)
Power Supply Voltage	1-230
Effective Current	40 A
Rated Input Power	7.8kVA
Rated Input Current	41 A
Duty Cycle (40°C 10min)	95% 60 A
	100% 58 A
Grid frequency	50/60Hz
No Load Voltage	400 V
CUTTING CURRENT RANGE	20-65 A
Insulation class	H
Protection class	IP 23
Cooling	AF
Dimensions l x w x h	640 x 240 x 445mm
Weight	24 kg
Severance Cut (MM)	Carbon Steel < 35
	Carbon Steel < 25
	Stainless Steel < 25
	Aluminum < 20
	Copper < 14
Production Cut (MM)	
Order Information	



Precise, accurate, infinite amperage control and heat output

PC 65 (CNC)



Applications ✓

- On-site maintenance
- Service tasks
- Small construction sites
- General installations
- Air ducting installation (HVAC)
- Demolition work
- Rental

Control Panel ✓



KEY BENEFITS

- **Heavy Duty Cycle**-Duty is more than 90%.
- **Pilot Arc Controller**-Increases cutting capabilities and speed.
- **Protections**-Equipped with temperature, voltage and current sensors for high protection.

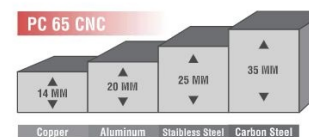


CNC Option



Standard tripple phase 3-400V
50/60Hz power supply.

CUTTING PERFORMANCE
-MILD STEEL
Hand Torch



TECHNICAL DATA (subject to change without notice.)

	PC 65 (CNC)
Power Supply Voltage	3-400
Effective Current	17 A
Rated Input Power	7.8kVA
Rated Input Current	18 A
Duty Cycle(40°C 10min)	90% 65 A
	100% 61 A
Grid frequency	50/60Hz
No Load Voltage	450 V
CUTTING CURRENT RANGE	20-65 A
Insulation class	H
Protection class	IP 23
Cooling	AF
Dimensions l x w x h	640 x 240 x 445mm
Weight	24 kg
Severance Cut(MM)	Carbon Steel < 35
	Carbon Steel < 25
	Stainless Steel < 25
	Aluminum < 20
	Copper ~ 14
Production Cut(MM)	
Order Information	



Precise, accurate, infinite amperage control and heat output

PC 65 3-220V (CNC)



Applications ✓

- On-site maintenance
- Service tasks
- Small construction sites
- General installations
- Air ducting installation (HVAC)
- Demolition work
- Rental

Control Panel ✓



KEY BENEFITS

- **Heavy Duty Cycle**-Duty is more than 90%.
- **Pilot Arc Controller**-Increases cutting capabilities and speed.
- **Protections**-Equipped with temperature, voltage and current sensors for high protection.



CNC Option



Dual voltage input supply-flexibility to use any place.

**CUTTING PERFORMANCE
-MILD STEEL
Hand Torch**



TECHNICAL DATA (subject to change without notice.)

PC 65 3-220V CNC	
Power Supply Voltage	3-220
Effective Current	28 A
Rated Input Power	7.8kVA
Rated Input Current	30 A
Duty Cycle(40°C 10min)	90% 65 A
	100% 61 A
Grid frequency	50/60Hz
No Load Voltage	450 V
CUTTING CURRENT RANGE	20-65 A
Insulation class	H
Protection class	IP 23
Cooling	AF
Dimensions l x w x h	640 x 240 x 445mm
Weight	24 kg
Severance Cut(MM)	Carbon Steel < 35
	Carbon Steel < 25
	Stainless Steel < 25
	Aluminum < 20
	Copper < 14
Production Cut(MM)	
Order Information	



Precise, accurate, infinite amperage control and heat output

PC 60/65 AIR



Applications ✓

- On-site maintenance
- Service tasks
- Small construction sites
- General installations
- Air ducting installation (HVAC)
- Demolition work
- Rental

Control Panel ✓



KEY BENEFITS

- **Heavy Duty Cycle**-Duty is more than 90%.
- **Pilot Arc Controller**-Increases cutting capabilities and speed.
- **Protections**-Equipped with temperature, voltage and current sensors for high protection.

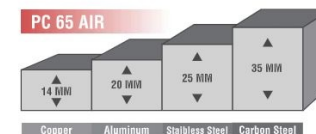


Compressor inside internal compressor or external compressor air supply



Standard tripple phase **3-400V 50/60Hz** power supply.

**CUTTING PERFORMANCE
-MILD STEEL
Hand Torch**



TECHNICAL DATA (subject to change without notice.)

	PC 60 AIR	PC 65 AIR
Power Supply Voltage	3-400	3-400
Effective Current	15.7 A	17 A
Rated Input Power	7.3kVA	7.8kVA
Rated Input Current	17 A	18 A
Duty Cycle(40°C 10min)	90% 65 A	90% 65 A
	100% 57 A	100% 61 A
Grid frequency	50/60Hz	50/60Hz
No Load Voltage	450 V	450 V
CUTTING CURRENT RANGE	20-65 A	20-65 A
Insulation class	H	H
Protection class	IP 23	IP 23
Cooling	AF	AF
Dimensions l x w x h	640 x 240 x 445mm	640 x 240 x 445mm
Weight	24 kg	24 kg
Severance Cut(MM)	Carbon Steel < 35	Carbon Steel < 35
	Carbon Steel < 25	Carbon Steel < 25
	Stainless Steel < 25	Stainless Steel < 25
Production Cut(MM)	Aluminum < 20	Aluminum < 20
	Copper < 14	Copper < 14
Order Information		

**PERFECT
IGNITION
RESPONSE**
/ Less heat input
/ Less distortion



Precise, accurate, infinite amperage control and heat output

PC 100/120 (CNC)



Applications ✓

- On-site maintenance
- Service tasks
- Small construction sites
- General installations
- Air ducting installation (HVAC)
- Demolition work
- Rental

Control Panel ✓



KEY BENEFITS

- **Display**-Digital control of all the cutting parameters.
- **Pilot Arc Controller**-increases cutting capabilities and speed.
- **Protections**-Equipped with temperature, voltage and current sensors for high protection.



CNC Option



550V Tested In Production



Digital control system-the welding parameter can be control more easier and more precise.

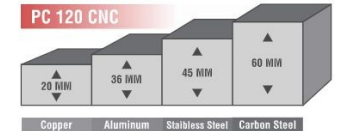
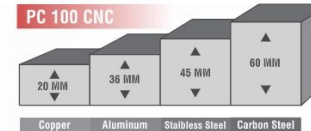


When you have a wrong grid voltage, the machine will stop work immediately and the key core will be protected from damage especially the **IGBT**.



IGBT Module

**CUTTING PERFORMANCE
-MILD STEEL
Hand Torch**



TECHNICAL DATA (subject to change without notice.)

	PC 100 CNC	PC 120 CNC
Power Supply Voltage	3-400	3-400
Effective Current	26 A	26 A
Rated Input Power	14.5kVA	14.5kVA
Rated Input Current	33 A	34 A
Duty Cycle(40°C 10min)	60% 100 A	60% 120 A
	100% 80 A	100% 100 A
Grid frequency	50/60Hz	50/60Hz
No Load Voltage	450 V	420 V
CUTTING CURRENT RANGE	20-100 A	20-120 A
Insulation class	H	H
Protection class	IP 23	IP 23
Cooling	AF	AF
Dimensions l x w x h	660 x 240 x 445mm	660 x 240 x 445mm
Weight	27 kg	33 kg
Severance Cut(MM)	Carbon Steel < 60	Carbon Steel < 60
	Carbon Steel < 45	Carbon Steel < 45
	Stainless Steel < 45	Stainless Steel < 45
	Aluminum < 36	Aluminum < 36
	Copper < 20	Copper < 20
Production Cut(MM)		
Order Information		

**PERFECT
IGNITION
RESPONSE**
/ Less heat input
/ Less distortion



Precise, accurate, infinite amperage control and heat output

PC 100/120 3-220V



Applications ✓

- On-site maintenance
- Service tasks
- Small construction sites
- General installations
- Air ducting installation (HVAC)
- Demolition work
- Rental

Control Panel ✓



KEY BENEFITS

- Display-Digital control of all the cutting parameters.
- Pilot Arc Controller-increases cutting capabilities and speed.
- Protections-Equipped with temperature, voltage and current sensors for high protection.



CNC Option



Dual voltage input supply-flexibility to use any place.



440V Tested In Production



When you have a wrong grid voltage, the machine will stop work immediately and the key core will be protected from damage especially the IGBT.



Digital control system-the welding parameter can be control more easier and more precise.



IGBT Module

CUTTING PERFORMANCE -MILD STEEL Hand Torch



TECHNICAL DATA (subject to change without notice.)

	PC 100 3-220V	PC 120 3-220V
Power Supply Voltage	3-400	3-400
Effective Current	50 A	28 A
Rated Input Power	14.5kVA	14.5kVA
Rated Input Current	55 A	36 A
Duty Cycle(40°C 10min)		60% 120 A
	100% 80 A	100% 100 A
Grid frequency	50/60Hz	50/60Hz
No Load Voltage	420 V	420 V
CUTTING CURRENT RANGE	20-100 A	20-100 A
Insulation class	H	H
Protection class	IP 23	IP 23
Cooling	AF	AF
Dimensions l x w x h	660 x 240 x 445mm	660 x 240 x 445mm
Weight	27 kg	30.5 kg
Severance Cut(MM)	Carbon Steel < 60	Carbon Steel < 60
	Carbon Steel < 45	Carbon Steel < 45
	Stainless Steel < 45	Stainless Steel < 45
	Aluminum < 36	Aluminum < 36
	Copper < 20	Copper < 20
Production Cut(MM)		
Order Information		



Precise, accurate, infinite amperage control and heat output

PC 100/120 AIR



Applications ✓

- On-site maintenance
- Service tasks
- Small construction sites
- General installations
- Air ducting installation(HVAC)
- Demolition work
- Rental

Control Panel ✓



KEY BENEFITS

- **Display**-Digital control of all the cutting parameters.
- **Pilot Arc Controller**-increases cutting capabilities and speed.
- **Protections**-Equipped with temperature, voltage and current sensors for high protection.



When you have a wrong gird voltage, the machine will stop work immediately and the key core will be protected from damage especially the IGBT.



550V Tested In Production



Digital control system-the welding parameter can be control more easier and more precise.



Dual voltage input supply-flexibility to use any place.

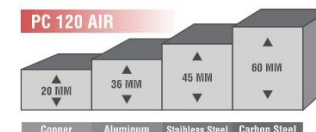


Compressor inside
internal compressor or external compressor air supply



IGBT Module

CUTTING PERFORMANCE -MILD STEEL Hand Torch



TECHNICAL DATA (subject to change without notice.)

	PC 100 AIR	PC 120 AIR
Power Supply Voltage	3-400	3-400
Effective Current	28 A	26 A
Rated Input Power	14.5kVA	14.5kVA
Rated Input Current	28 A	34 A
Duty Cycle(40°C 10min)		60% 120 A
	100% 100 A	100% 95 A
Grid frequency	50/60Hz	50/60Hz
No Load Voltage	420 V	420 V
CUTTING CURRENT RANGE	20-100 A	20-100 A
Insulation class	H	H
Protection class	IP 23	IP 23
Cooling	AF	AF
Dimensions l x w x h	660 x 240 x 445mm	660 x 240 x 445mm
Weight	30.5 kg	33 kg
Severance Cut(MM)	Carbon Steel < 60	Carbon Steel < 60
	Carbon Steel < 45	Carbon Steel < 45
	Stainless Steel < 45	Stainless Steel < 45
	Aluminum < 36	Aluminum < 36
	Copper < 20	Copper < 20
Production Cut(MM)		
Order Information		



Precise, accurate, infinite amperage control and heat output

PC 160 CNC



Applications ✓

- On-site maintenance
- Service tasks
- Small construction sites
- General installations
- Air ducting installation(HVAC)
- Demolition work
- Rental

Control Panel ✓



KEY BENEFITS

- **Display**-Digital control of all the cutting parameters.
- **Pilot Arc Controller**-increases cutting capabilities and speed.
- **Protections**-Equipped with temperature, voltage and current sensors for high protection.



CNC Option



When you have a wrong grid voltage, the machine will stop work immediately and the key core will be protected from damage especially the IGBT.



550V Tested In Production

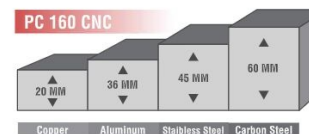


Digital control system-the welding parameter can be control more easier and more precise.



IGBT Module

CUTTING PERFORMANCE -MILD STEEL Hand Torch



TECHNICAL DATA (subject to change without notice.)

	PC 160 CNC
Power Supply Voltage	3-400
Effective Current	25 A
Rated Input Power	14.5kVA
Rated Input Current	47 A
Duty Cycle(40°C 10min)	60% 160 A
	100% 125 A
Grid frequency	50/60Hz
No Load Voltage	420 V
CUTTING CURRENT RANGE	20-160 A
Insulation class	H
Protection class	IP 23
Cooling	AF
Dimensions l x w x h	660 x 240 x 445mm
Weight	38.3 kg
Severance Cut(MM)	Carbon Steel < 60
	Carbon Steel < 45
	Stainless Steel < 45
	Aluminum < 36
	Copper < 20
Production Cut(MM)	
Order Information	