



flama

Passionate about welding

PRODUCT CATALOG





THANK YOU FOR
CHOOSING FLAMA

WE ARE PROFESSIONAL
WELDING MANUFACTURER

flama

**WE PROVIDE MAXIMUM
LEVELS OF CUSTOMIZATION**

**WE STRIVE TO MEET YOUR
REQUIREMENTS EVERYDAY**

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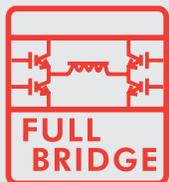
ECONOMY LINE

ARC E RANGE

DC INVERTER MMA WELDER

MODEL:

**ARC125E/140E/160E
180E/200E/220E**



**FULL
BRIDGE**

ARC160E~220E

**IGBT TECHNOLOGY
FULL BRIDGE**



DC INVERTER MMA WELDER

ARC 125E/140E/160E/180E/200E/220E



Input Voltage



Wide Input Voltage Range



440V Tested in production



Moisture Proof
Salt Spray Proof
Corrosion Proof



Generator Friendly

Extra functions

'Hot Start' function for easier arc striking;
'Arc Force' to prevent electrode sticking to the piece; smoother welding and deeper penetration;
Built-in Anti-Sticking device to prevent overload and ease the electrode removal from the workpiece.

Weight

Extremely low weight and versatility.

Protections

Fully protected against over-voltage under-voltage and over-heat.

Generator friendly

Designed to work with diesel generators and to avoid failures due to its voltage spikes.



Power Factor	0.65
Efficiency	≥ 80%
Cooling	AF
Insulation Class	H
Protection Class	IP23

Parameters

Model	Power Supply Voltage V	Fre. HZ	Rated Input Power KW	Rated Input Current A	Duty Cycle 40°C 10min	No Load Voltage V	Welding Current Range A	Net Weight kg	Dimensions mm	Electrode Diameter	Electrode Type
Arc 125E	160~275	50/60	4.0	29	40%125A 60% 105A 100%80A	60	10~125	3.0	210x125x170	φ 1.6~ φ 4.0	6013,7018 etc.
Arc 140E	160~275	50/60	4.7	34	30%140A 60% 105A 100%80A	60	10~140	3.0	210x125x170	φ 1.6~ φ 4.0	6013,7018 etc.
Arc 160E	160~275	50/60	5.2	38	40%160A 60% 130A 100%90A	74	10~160	3.5	230x120x170	φ 1.6~ φ 4.0	6013,7018 etc.
Arc 180E	160~275	50/60	6.0	40	25%180A 60% 130A 100%80A	74	10~180	3.5	230x120x170	φ 1.6~ φ 5.0	6013,7018 etc.
Arc 200E	160~275	50/60	6.8	49	30%200A 60% 145A 100%125A	74	10~200	3.5	230x120x170	φ 1.6~ φ 5.0	6013,7018 etc.
Arc 220E	160~275	50/60	7.2	50	25%220A 60% 145A 100%125A	74	10~220	3.5	230x120x170	φ 1.6~ φ 5.0	6013,7018 etc.

**ARC LT RANGE
MAXIARC LT RANGE**

DC INVERTER MMA/LIFT TIG WELDER

MODEL:

**ARC 125LT/140LT/160LT
180LT/200LT/220LT**

**ARC 200H/220H LT
MAXIARC 160LT/200LT
250LT-3**

MAXIARC 315LT (220V)

**MAXIARC 320LT/400LT CEL
500LT**





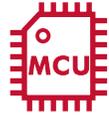
Input Voltage



440V Tested in production 220V



Moisture Proof
Salt Spray Proof
Corrosion Proof



MCU Control System



Generator Friendly



10/25SQMM

Power Factor 0.65
Efficiency $\geq 80\%$
Cooling AF
Insulation Class H
Protection Class IP23

ARC 125LT/140LT/160LT/180LT/200LT/220LT

Tig Mode

Capable of welding with Lift Tig Mode.

Extra functions

'Hot Start', 'Anti-sticking' and 'Arc Force' built in.

Protections

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

Digital display

Variable amperage control with digital meter, for a simultaneous welding current display.

Weight

Extremely low weight and versatility.

Generator friendly

Designed to work with diesel generators and to avoid failures due to its voltage spikes.

Parameters

Model	Power Supply Voltage V	Fre. HZ	Rated Input Power KW	Rated Input Current A	Duty Cycle 40°C 10min	No Load Voltage V	Welding Current Range A	Net Weight kg	Dimensions mm	Electrode Diameter	Electrode Type
Arc 125LT	160~275	50/60	4.0	29	40%125A 60% 105A 100%80A	60	10~125	3.3	296x132x260	ϕ 1.6~ ϕ 4.0	6013,7018 etc.
Arc 140LT	160~275	50/60	4.7	34	30%140A 60% 105A 100%80A	60	10~140	3.3	296x132x260	ϕ 1.6~ ϕ 4.0	6013,7018 etc.
Arc 160LT	160~275	50/60	5.2	38	40%160A 60% 130A 100%90A	74	10~160	3.8	296x132x260	ϕ 1.6~ ϕ 4.0	6013,7018 etc.
Arc 180LT	160~275	50/60	6.0	40	25%180A 60% 130A 100%80A	74	10~180	3.8	296x132x260	ϕ 1.6~ ϕ 5.0	6013,7018 etc.
Arc 200LT	160~275	50/60	6.8	49	30%200A 60% 145A 100%125A	74	10~200	3.8	296x132x260	ϕ 1.6~ ϕ 5.0	6013,7018 etc.
Arc 220LT	160~275	50/60	7.2	50	25%220A 60% 145A 100%125A	74	10~220	3.8	296x132x260	ϕ 1.6~ ϕ 5.0	6013,7018 etc.

MAXIARC 160LT/200LT
 ARC 200H/220H LT/250LT-1

Input Voltage

440V Tested in production

Generator Friendly

Heavy Duty Cycle
Maxiarc 160/200LT


Tig Mode

Capable of welding with Lift Tig Mode.

Extra functions

'Hot Start', 'Anti-sticking' and 'Arc Force' built in.

Protections

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

Digital display

Variable amperage control with digital meter, for a simultaneous welding current display.

Weight

Extremely low weight and versatility.

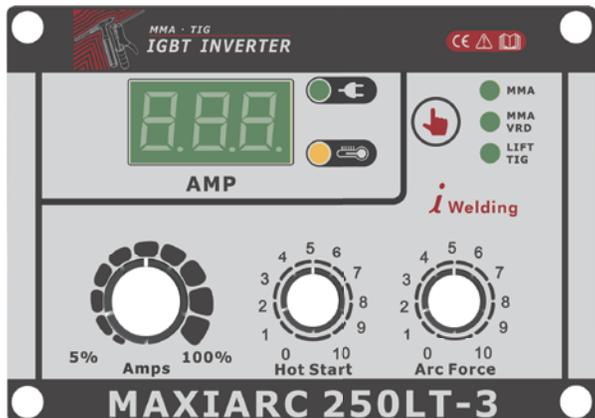
Generator friendly

Designed to work with diesel generators and to avoid failures due to its voltage spikes.

Power Factor	0.70
Efficiency	≥ 85%
Cooling	AF
Insulation Class	H
Protection Class	IP23

Parameters

Model	Power Supply Voltage V	Fre. HZ	Rated Input Power KW	Rated Input Current A	Duty Cycle 40°C 10min	No Load Voltage V	Welding Current Range A	Net Weight kg	Dimensions mm	Electrode Diameter	Electrode Type
MAXIARC 160LT	1~220/230/240±10%	50/60	5.0	37	60%160A 100%145A	68	10~160	4.9	340x146x278	φ1.6~ φ4.0	6013,7018 etc.
MAXIARC 200LT	1~220/230/240±10%	50/60	6.5	46	60%200A 100%170A	68	10~200	6.2	370x146x278	φ1.6~ φ5.0	6013,7018 etc.
ARC 200H LT	1~220/230/240±10%	50/60	6.8	46	30%200A 60%160A 100%130A	68	10~200	5.0	340x146x278	φ1.6~ φ5.0	6013,7018 etc.
ARC 220H LT	1~220/230/240±10%	50/60	7.2	49	40%220A 60%200A 100%155A	68	10~220	7.5	370x146x278	φ1.6~ φ5.0	6013,7018 etc.
ARC 250 LT-1	1~220/230/240±10%	50/60	8.8	53	50%250A 60%230A 100%155A	63	10~250	8.8	417x189x350	φ1.6~ φ5.0	6013,7018 etc.



3 Phase
380V/400V
415V/440V
50Hz/60Hz



Heavy
Duty Cycle



VRD
safe
Voltage
Reduction
Device



550V Tested
in production



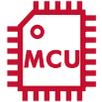
PLP
safe
Phase
Loss
Protection



Moisture Proof
Salt Spray Proof
Corrosion Proof



Generator
Friendly



MCU Control
System

Heavy Industrial Use!

NEW

Tig Mode

Capable of welding with Lift Tig Mode.

Extra functions

'Hot Start' and 'Arc Force' adjustable ;
VRD selectable;
'Anti-sticking' built in.

Protections

Equipped with temperature, phase loss protection ,
voltage and current sensors for high protection.

Digital display

Variable amperage control with digital meter, for
a simultaneous welding current display.



Power Factor	0.70
Efficiency	≥ 85%
Cooling	AF
Insulation Class	H
Protection Class	IP23

Parameters

Model	Power Supply Voltage V	Fre. HZ	Rated Input Power KW	Rated Input Current A	Duty Cycle 40°C 10min	No Load Voltage V	Welding Current Range A	Efficiency %	Net Weight kg	Dimensions mm	Electrode Diameter	Electrode Type
Maxiarc 250LT-3	3~380 ±10%	50/60	8.5	18	60%250A 100%200A	60	10~250	≥85	10	457x189 x350	φ 1.6~ φ 5.0	6013,7018 etc.


Heavy Duty Cycle

Input Voltage

440V Tested in production

Generator Friendly

Voltage Reduction Device

Works with 1 Phase and 3 Phase
220V

Tig Mode

Capable of welding with Lift Tig Mode.

Extra functions

 'Hot Start' and 'Arc Force' adjustable ;
 VRD selectable ;
 'Anti-sticking' built in.

Protections

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

Generator friendly

Designed to work with diesel generators and to avoid failures due to its voltage spikes.



Power Factor	0.70
Cooling	AF
Insulation Class	H
Protection Class	IP23

Parameters

Model	Power Supply Voltage V	Fre. HZ	Rated Input Power KW	Rated Input Current A	Duty Cycle 40°C 10min	No Load Voltage V	Welding Current Range A	Efficiency %	Net Weight kg	Dimensions mm	Electrode Diameter	Electrode Type
Maxiarc 315 LT (220V)	3~220 ±10%	50/60	11	34	60%315A 100%250A	73	10~315	≥85	12	457x189 x350	φ 1.6~ φ 5.0	6013,7018 etc.



Heavy Duty Cycle



3 Phase
380V/400V
415V/440V
50Hz/60Hz



550V Tested in production



Generator Friendly



Voltage Reduction Device



IGBT Module



Cellulosic Electrode



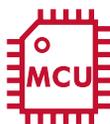
Zero Voltage Switch

MAXIARC 400 LT CEL

MAXIARC 500 LT



Phase Loss Protection



MCU Control System

Heavy Industrial Use!

NEW

Tig Mode

Capable of welding with Lift Tig Mode.

Extra functions

'Hot Start' and 'Arc Force' adjustable ;
VRD selectable;
'Anti-sticking' built in.

Protections

Equipped with temperature, phase loss protection, voltage and current sensors for high protection.

Digital display

Variable amperage control with digital meter, for a simultaneous welding current display.



Power Factor	0.70
Efficiency	≥ 90%
Cooling	AF
Insulation Class	H
Protection Class	IP23

Parameters

Model	Power Supply Voltage V	Freq. HZ	Rated Input Power KW	Rated Input Current A	Duty Cycle 40°C 10min	No Load Voltage V	Welding Current Range A	Net Weight kg	Dimensions mm	Electrode Diameter	Electrode Type
MAXIARC 320LT	3~380 ±10%	50/60	11.5	23	60%320A 100%250A	55	10~320	17.6	485x240x445	φ 1.6~ φ 6.0	6013,7018 etc.
MAXIARC 400LT CEL	3~380 ±10%	50/60	16.0	30	60%400A 100%325A	90	20~400	19	485x240x445	φ 1.6~ φ 6.0	6010,6011, 6013,7018 etc.
MAXIARC 500LT	3~380 ±10%	50/60	23	36	60%500A 100%400A	90	20~500	22	550x240x445	φ 1.6~ φ 6.0	6013,7018 etc.

ARC CEL RANGE
MAXIARC CEL RANGE

DC INVERTER MMA WELDER

MODEL:

ARC 160CEL/200CEL

MAXIARC 250CEL





Cellulosic Electrode



**Moisture Proof
Salt Spray Proof
Corrosion Proof**



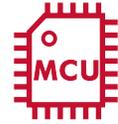
Input Voltage



440V Tested in production



Generator Friendly



MCU Control System

Tig Mode

Capable of welding with Lift Tig Mode.

Extra functions

'Hot Start', 'Anti-sticking' and 'Arc Force' built in.

Protections

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

Digital display

Variable amperage control with digital meter, for a simultaneous welding current display.

Weight

Extremely low weight and versatility.

Generator friendly

Designed to work with diesel generators and to avoid failures due to its voltage spikes.



10/25SQMM

Power Factor	0.65
Efficiency	≥80%
Cooling	AF
Insulation Class	H
Protection Class	IP23

Parameters

Model	Power Supply Voltage V	Fre. HZ	Rated Input Power KW	Rated Input Current A	Duty Cycle 40°C 10min	No Load Voltage V	Welding Current Range A	Net Weight kg	Dimensions mm	Electrode Diameter	Electrode Type
Arc 160 CEL	160~275	50/60	5.2	38	40%160A 60% 130A 100%90A	74	10~160	4.5	316x132 x260	φ 1.6~ φ 4.0	6010,6011, 6013,7018 etc.
Arc 200 CEL	160~275	50/60	6.8	49	30%200A 60% 145A 100%125A	74	10~200	4.5	316x132 x260	φ 1.6~ φ 5.0	6010,6011, 6013,7018 etc.


Cellulosic Electrode

3 Phase
 380V/400V
 415V/440V
 50Hz/60Hz

Heavy Duty Cycle

Voltage Reduction Device

550V Tested in production

Phase Loss Protection

Moisture Proof Salt Spray Proof Corrosion Proof

MCU Control System

Generator Friendly

NEW

Tig Mode

Capable of welding with Lift Tig Mode.

Extra functions

 'Hot Start' and 'Arc Force' adjustable ;
 VRD selectable;
 'Anti-sticking' built in.

Protections

Equipped with temperature, phase loss protection, voltage and current sensors for high protection.

Digital display

Variable amperage control with digital meter, for a simultaneous welding current display.

Power Factor	0.75
Efficiency	≥ 85
Cooling	AF

Parameters

Model	Power Supply Voltage V	Fre. HZ	Rated Input Power KW	Rated Input Current A	Duty Cycle 40°C 10min	No Load Voltage V	Welding Current Range A	Net Weight kg	Dimensions mm	Electrode Diameter	Electrode Type
MAXIARC 250 CEL	3~380±10%	50/60	8.5	18	60%250A 100%200A	72	10~250	12.5	457x189 x350	φ 1.6~ φ 5.0	6010,6011, 6013,7018 etc.

ARC PFC RANGE

DC INVERTER MMA WELDER

MODEL:

ARC 160 PFC

ARC 200 PFC



**Input
Voltage**



**Power
Factor
Correction**

PFC TECHNOLOGY



Power Factor Correction



Voltage Reduction Device



Input Voltage



440V Tested in production



**Moisture Proof
Salt Spray Proof
Corrosion Proof**



Generator Friendly

NEW



PFC Technology

Power factor more than 0.99. Multiple advantages such as energy saving and wider input voltage.

Tig Mode

Capable of welding with Lift Tig Mode.

Extra functions

'Hot Start', 'Anti-sticking' and 'Arc Force' built in.

Protections

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

Generator friendly

Designed to work with diesel generators and to avoid failures due to its voltage spikes.

**Power Factor 0.99
Efficiency ≥85
Cooling AF**

Parameters

Model	ARC 160PFC		ARC 200PFC	
Power Supply Voltage V	160VAC~275VAC		160VAC~275VAC	
Fre. HZ	50/60		50/60	
Rated Input Power KW	1~220/230/240±10%		1~220/230/240±10%	
	3.6	5.3	4.9	6.9
Rated Input Current A	16.5	24	22	31
	TIG 30%160A 60% 120A 100% 90A	MMA 30%160A 60% 120A 100% 90A	TIG 30%200A 60% 145A 100%110A	MMA 30%160A 60% 145A 100%110A
Duty Cycle 40°C 10min				
No Load Voltage V	66		66	
Welding Current Range A	10~160		10~200	
Efficiency %	≥80		≥80	
Net Weight kg	4.6		5	
Dimensions mm	360x146x278		360x146x278	
Protection Class	IP23		IP23	
Insulation Class	H		H	
Cooling	AF		AF	
Electrode Diameter	Φ1.6~ Φ4.0		Φ1.6~ Φ5.0	
Electrode Type	6013,7018 etc.		6013,7018 etc.	
Power Factor	0.99		0.99	

ARC MV RANGE

DC INVERTER MMA WELDER

MODEL:

ARC 160 PFC MV
ARC 200 PFC MV
ARC 315 MV
ARC 315 MV CEL



UNIVERSAL



ARC MV RANGE

DC INVERTER MMA WELDER

MODEL:

ARC 160 PFC MV
ARC 200 PFC MV
ARC 315 MV
ARC 315 MV CEL



UNIVERSAL





Power Factor Correction

PFC Technology

Power factor more than 0.99. Multiple advantages such as energy saving and wider input voltage, works with 110V and 220V.



Voltage Reduction Device



Input Voltage



440V Tested in production



Generator Friendly



UNIVERSAL



Tig Mode

Capable of welding with Lift Tig Mode.

Extra functions

'Hot Start', 'Anti-sticking' and 'Arc Force' built in.

Protections

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

Generator friendly

Designed to work with diesel generators and to avoid failures due to its voltage spikes.

Weight

Extremely low weight and versatility.

Parameters

Model	ARC 160PFC MV				ARC 200PFC MV			
Power Supply Voltage V	90VAC~275VAC				90VAC~275VAC			
Fre.HZ	50/60				50/60			
Rated Input Power KW	1~110/120/130±10%		1~220/230/240±10%		1~110/120/130±10%		1~220/230/240±10%	
	2.0	2.9	3.6	5	2.5	3.9	4.9	7
Rated Input Current A	17.5	26	16.5	23	22.5	36	22	32
Duty Cycle 40°C 10min	TIG 50%100A 60% 90A 100%75A	MMA 30%100A 60% 75A 100%70A	TIG 40%160A 60% 135A 100%110A	MMA 35%160A 60% 125A 100%100A	TIG 90%130A 100%105A	MMA 60%130A 100%95A	TIG 50%200A 60% 185A 100%145A	MMA 40%200A 60% 165A 100%135A
	66				66			
No Load Voltage V	66				66			
Welding Current Range A	10~100		10~160		10~130		10~200	
Efficiency %	≥85				≥85			
Net Weight kg	6				7			
Dimensions mm	390x146x278				410x146x278			
Protection Class	IP23				IP23			
Insulation Class	H				H			
Cooling	AF				AF			
Electrode Diameter	Φ1.6~ Φ4.0				Φ1.6~ Φ5.0			
Electrode Type	6013,7018 etc.				6013,7018 etc.			
Power Factor	0.99				0.99			

DC INVERTER MMA WELDER

ARC 315 MV

110V
Wide
Input Voltage
Range
460V

1 PH
Works with
1 Phase and
3 Phase
3 PH

90~275V
Power
Factor
Correction
0.99

ZVS
Zero
Voltage/Current
Switch
ZCS

MCU
MCU Control
System

VRD
Voltage
Reduction
safe Device

Generator
Friendly

UNIVERSAL

Wide Input Voltage
110VAC~460VAC(I~3Phase).



No Single Phase De-rating
Works with Single Phase and Three Phase.

PFC Technology
Power factor more than 0.99; Multiple advantages such as energy saving and wider input voltage.

ZVS/ZCS Technology
Higher duty cycle and remarkable benefits to reliability.

Extra functions
'Hot Start' function for easier arc striking; 'Anti-sticking' and 'Arc Force'.

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



Net weight kg	13.8	Efficiency %	≥85
Dimensions mm	492x189x350	Protection Class	IP23
Electrode Diameter	Φ1.6~Φ6.0	Insulation Class	H
Electride Type	6013,7018 etc	Cooling	AF

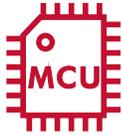
Parameters

Model	ARC 315 MV													
Power Supply Voltage V	110VAC~460VAC													
Fre.HZ	50/60													
Rated Input Power KW	1~110±10%		1~220±10%		1~380±10%		1~460±10%		3~220±10%		3~380±10%		3~460±10%	
	3.1	3.3	6.3	6.8	8.6	12.0	8.3	11.5	8.7	9.2	8.7	11.9	8.7	11.9
Rated Input Current A	26	30	29	31.7	23	32.5	19	26.7	23.5	25.6	13	19	10.5	15.7
	TIG	MMA	TIG	MMA	TIG	MMA	TIG	MMA	TIG	MMA	TIG	MMA	TIG	MMA
Duty Cycle 40°C 10min	60%	30%	50%	45%					35%	35%	40%			
	150A	120A	250A	200A					315A	250A	315A			
		60%	60%	60%					60%	60%	60%			
		85A	230A	175A					245A	195A	260A			
	100%	100%	100%	100%					100%	100%	100%			
	120A	70A	180A	135A					190A	150A	200A			
No Load Voltage V	67													
Welding Current Range A	10~150	10~120	10~250	10~200					10~315	10~250	10~315			
Power Factor	0.99							0.95						


Wide Input Voltage Range

Works with 1 Phase and 3 Phase

Power Factor Correction

Zero Voltage/Current Switch

MCU Control System

Voltage Reduction Device

Generator Friendly

Cellulosic Electrode
UNIVERSAL

Wide Input Voltage
 110VAC~460VAC(1~3Phase).

No Single Phase De-rating
 Works with Single Phase and Three Phase.

PFC Technology
 Power factor more than 0.99; Multiple advantages such as energy saving and wider input voltage.

ZVS/ZCS Technology
 Higher duty cycle and remarkable benefits to reliability.

Extra functions
 'Hot Start' function for easier arc striking; 'Anti-sticking' and 'Arc Force'.

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


Net weight kg	15	Efficiency %	≥85
Dimensions mm	492x189x350	Protection Class	IP23
Electrode Diameter	Φ1.6~Φ6.0	Insulation Class	H
Electride	6010,6011, 6013,7018 etc	Cooling	AF

Parameters
Model
ARC 315 MV CEL
Power Supply Voltage V

110VAC~460VAC

Fre.HZ

50/60

Rated Input Power KW

1~110±10%		1~220±10%		1~380±10%		1~460±10%		3~220±10%		3~380±10%		3~460±10%	
3.1	3.3	6.3	6.8	8.6	12.0	8.3	11.5	8.7	9.2	8.7	11.9	8.7	11.9

Rated Input Current A

1~110±10%		1~220±10%		1~380±10%		1~460±10%		3~220±10%		3~380±10%		3~460±10%	
26	30	29	31.7	23	32.5	19	26.7	23.5	25.6	13	19	10.5	15.7

Duty Cycle 40°C 10min

TIG	MMA	TIG	MMA	TIG	MMA	TIG	MMA	TIG	MMA	TIG	MMA	TIG	MMA
60%	30%	50%	45%			35%		35%			40%		
150A	120A	250A	200A			315A		250A			315A		
	60%	60%	60%			60%		60%			60%		
	85A	230A	175A			245A		195A			260A		
100%	100%	100%	100%			100%		100%			100%		
120A	70A	180A	135A			190A		150A			200A		

No Load Voltage V

80

Welding Current Range A

10~150	10~120	10~250	10~200		10~315		10~250	10~315		10~315
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Power Factor

0.99

0.95

TIG RANGE

DC INVERTER HF TIG WELDER

MODEL:

TIG 180S/180/200/220
TIG 250-1



**IGBT TECHNOLOGY
FULL BRIDGE**



TIG 180S/180/200/220

Easy Arc Striking

**Moisture Proof
Salt Spray Proof
Corrosion Proof**

Input Voltage

440V Tested in production

Generator Friendly

Multipurpose
 MMA/TIG (TIG 180S ONLY TIG)

HF Mode
 High Frequency TIG Mode.

Down Slope
 Selectable Down Slope Time.

Post Flow
 Selectable Post Flow Time.

2T/4T Mode
 Programs provided for the optimum selection of the Up/Down Slopes by the torch trigger.

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

Generator friendly
 Designed to work with diesel generators and to avoid failures due to its voltage spikes.

Weight
 Extremely low weight and versatility.

Cooling AF
Insulation Class H
Protection Class IP23

Parameters

Model	Power Supply Voltage V	Fre. HZ	Rated Input Power KW		Rated Input Current A		Duty Cycle 40°C 10min	No Load Voltage V	Welding Current Range A	Down Slope TIME S	Net Weight kg	Dimensions mm	Electrode Diameter	Electrode Type
			TIG	MMA	TIG	MMA								
TIG 180S	160~275	50/60	4.3	---	28	---	40%180A 60%145A 100%115A	60	10~180	---	5.0	410x146x278	---	---
TIG 180	160~275	50/60	3.8	5.8	28	40	40%180A 60%125A 100%100A	74	10~180	0~10	5.5	410x146x278	φ 1.6~ φ 4.0	6013,7018 etc.
TIG 200	160~275	50/60	4.5	7.0	32	46	35%200A 60%125A 100%100A	74	10~200	0~10	5.5	410x146x278	φ 1.6~ φ 5.0	6013,7018 etc.
TIG 220	160~275	50/60	5.0	7.2	35	50	30%220A 60%125A 100%100A	74	10~220	0~10	5.7	410x146x278	φ 1.6~ φ 5.0	6013,7018 etc.



Easy Arc Striking



Input Voltage



440V Tested in production



Generator Friendly



Multipurpose
MMA/TIG.

2T/4T Mode

Programs provided for the optimum selection of the Up/Down Slopes by the torch trigger.

HF Mode

High Frequency Tig Mode.

Down Slope

Selectable Down Slope Time.

Post Flow

Selectable Post Flow Time.

Protections

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

Weight

Extremely low weight and versatility.

Generator friendly

Designed to work with diesel generators and to avoid failures due to its voltage spikes.

Cooling	AF
Insulation Class	H
Protection Class	IP23

Parameters

Model	Power Supply Voltage V	Fre. HZ	Rated Input Power KW	Rated Input Current A	Duty Cycle 40°C 10min	No Load Voltage V	Welding Current Range A	Net Weight kg	Dimensions mm	Electrode Diameter	Electrode Type
TIG 250-1	1~220/ 230/240 ±10%	50/60	8.8(MMA) 5.9(TIG)	53(MMA) 40(TIG)	40%250A 60%200A 100%160A	66	10~250	10	447x189x350	φ 1.6~ φ 5.0	6013,7018 etc.

TIG DC PULSE RANGE

DC INVERTER HF TIG WELDER

MODEL:

TIG 160/200 DC PULSE
TIG 250-1 DC PULSE

TIG 180 DC PULSE PFC MV
TIG 200 DC PULSE PFC MV

TIG 250-3 DC PULSE

NEW!

TIG 320/400 DC PULSE





Potentiometer Remote control Torch



Easy Arc Striking



Input Voltage



440V Tested in production



Up/Down Remote control Torch



Remote Foot Control



DC PULSE



Moisture Proof
Salt Spray Proof
Corrosion Proof



Wireless Remote Control



Generator Friendly



MCU Control System

Tig 160/200 DC PULSE

TIG 180/200/250-1 DC PULSE

Multiple Mode

MMA/LIFT TIG/HF TIG.

Up/Down Slope

Selectable Up/Down Slope Time.

Pre/Post Flow

Selectable Pre/Post Flow Time.

Pulse

High performance on ultra thin surfaces with no deformation

Protections

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

Generator friendly

Designed to work with diesel generators and to avoid failures due to its voltage spikes.



12PIN



Up Slope/Down Slope	0~10	Freq.	50/60
Pre/Post Flow	0~2/0~10	Efficiency	≥85%
Pulse Freq.	0.5~200	Cooling	AF
Pulse Width range	5~95	Insulation Class	H
Power Factor	0.75	Protection Class	IP23

Parameters

Model	Power Supply Voltage <u>V</u>	Rated Input Power <u>KW</u>		Rated Input Current <u>A</u>		Duty Cycle 40°C 10min	No Load Voltage <u>V</u>	Welding Current Range <u>A</u>	Net Weight <u>kg</u>	Dimensions <u>mm</u>
		TIG	MMA	TIG	MMA					
TIG 160 DC PULSE	1~220/230/240 ±10%	3.4	5.2	25	38	50%160A 60%150A 100%115A	74	5~160	5.5	410x146x278
TIG 200 DC PULSE	1~220/230/240 ±10%	4.5	7.0	32	45	35%200A 60%125A 100%100A	74	5~200	5.5	410x146x278
TIG 250-1 DC PULSE	1~220/230/240 ±10%	5.9	8.8	40	53	40%250A 60%200A 100%180A	66	5~250	10	447x189x350

TIG 180/200 DC PULSE PFC MV



Potentiometer Remote control Torch



Up/Down Remote control Torch



Power Factor Correction 0.99



Wireless Remote Control



Easy Arc Striking



Remote Foot Control



Generator Friendly



Input Voltage



DC PULSE



440V Tested in production



MCU Control System

UNIVERSAL



Pulse

High performance on ultra thin surfaces with on deformation.

PFC Technology

Power factor more than 0.99. Multiple advantages such as energy saving and wider input voltage, works with 110V and 220V.

Protections

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

Generator friendly

Designed to work with diesel generators and to avoid failures due to its voltage spikes.



12PIN

Parameters

Pre/Post Flow

Selectable Pre/Post Flow Time.

Multipurpose

MMA/LIFT TIG/HF TIG.

Up/Down Slope

Selectable Up and Down Slop Time.

Wide Input Voltage

90VAC~275VAC.

Model	TIG 180 DC PULSE PFC MV				TIG 200 DC PULSE PFC MV			
Power Supply Voltage V	90~275				90~275			
Fre.HZ	50/60				50/60			
	1~110/120/130±10%	1~220/230/240±10%	1~110/120/130±10%	1~220/230/240±10%	1~110/120/130±10%	1~220/230/240±10%	1~110/120/130±10%	1~220/230/240±10%
Rated Input Power KW	1.9	3.2	3.7	5.8	2.7	4.1	4.6	6.3
Rated Input Current A	17.2	33	17	26.5	25.5	39	21	32
Duty Cycle 40°C 10min	TIG 35%110A 60%85A 100%65A	MMA 30% 110A 60% 80A 100% 65A	TIG 35% 180A 60% 140A 100% 110A	MMA 25% 180A 60% 120A 100% 100A	TIG 90% 130A 100% 125A	MMA 60% 130A 100% 105A	TIG 50% 200A 60% 180A 100% 145A	MMA 30% 200A 60% 145A 100% 135A
No Load Voltage V	66				66			
Welding Current Range A	5~110		5~180		5~130		5~200	
Up slope/Down slope S	0~10				0~10			
Pre/Post Flow S	0~2/0~10				0~2/0~10			
Pulse frequency HZ	0.5~200				0.5~200			
Pulse width range %	5~95				5~95			
Efficiency %	≥85				≥85			
Net Weight kg	7.5				9			
Dimensions mm	465x146x278				465x146x278			
Insulation Class	IP23				IP23			
Protection Class	H				H			
Cooling	AF				AF			
Electrode Diameter	Φ1.6~Φ4.0				Φ1.6~Φ5.0			
Power Factor	0.99				0.99			

TIG DC PULSE RANGE

DC INVERTER HF TIG WELDER

TIG 250-3/320/400 DC PULSE



Potentiometer Remote control Torch



Easy Arc Striking



3 Phase
380V/400V
415V/440V
50Hz/60Hz



Heavy Duty Cycle



Generator Friendly



Up/Down Remote control Torch



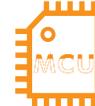
Remote Foot Control



DC PULSE



Wireless Remote Control



MCU Control System



550V Tested in production



Phase Loss Protection



IGBT Module
Increased Reliability



Moisture Proof
Salt Spray Proof
Corrosion Proof

TIG 320/400 DC PULSE

TIG 250-3 DC PULSE

NEW

Heavy Industrial Use!

Pre/Post Flow

Selectable Pre/Post Slope Time.

Up/Down Slope

Selectable Up/Down Slope Time.

Multiple Mode

MMA/LIFT TIG/HF TIG.

Pulse

High performance on ultra thin surfaces with no deformation.

Protections

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

Heavy duty

High duty cycle for industrial applications.

Accessories

Optional trolley and water cooling unit.



PowerFactor	0.75
Fre.	50/60
Efficiency	≥85
Cooling	AF
Insulation Class	H
Protection Class	IP23

Parameters

Model	Power Supply Voltage		Rated Input Power KW		Rated Input Current A		Duty Cycle 40°C 10min	No Load Voltage V	Welding Current Range A	Up Slope/Down Slope S	Pre/Post Flow S	Pulse Fre. HZ	Pulse Width Range %	Net Weight kg	Dimensions mm
	V	TIG	MMA	TIG	MMA										
TIG 250-3 DC PULSE	3~380 ±10%	6.0	8.6	14	18	60%250A 100%195A	73	5~250	0~10	0~2/ 0~10	0.5~200	5~95	10.5	457x189x350	
TIG 320 DC PULSE	3~380 ±10%	9.5	11.5	19	23	60%320A 100%250A	68	5~320	0~10	0~2/ 0~10	0.5~200	5~95	20	530x240x445	
TIG 400 DC PULSE	3~380 ±10%	13	15.5	25.5	31.5	60%400A 100%310A	68	5~400	0~10	0~2/ 0~10	0.5~200	5~95	20.5	530x240x445	

TIG AC/DC RANGE

AC/DC INVERTER HF TIG WELDER

MODEL:

TIG 200E AC/DC
TIG 200E AC/DC PULSE
TIG 200 AC/DC

TIG 200 AC/DC PFC MV

NEW!

TIG 280 MV AC/DC
TIG 320/400 AC/DC PULSE



NEW



AC/DC INVERTER HF TIG WELDER



Potentiometer Remote control Torch



Easy Arc Striking



Inverter Frequency 100KHZ



Up/Down Remote control Torch



Input Voltage



AC/DC Technology



440V Tested in production



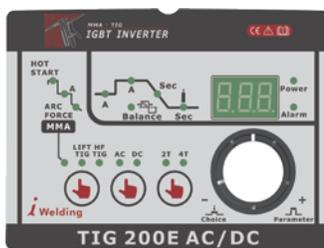
Remote Foot Control



Generator Friendly



MCU Control System



12PIN

AC Balance Control

AC balance(50~85%)control monitors the oxide and helps better cleaning during aluminum welding.

Protections

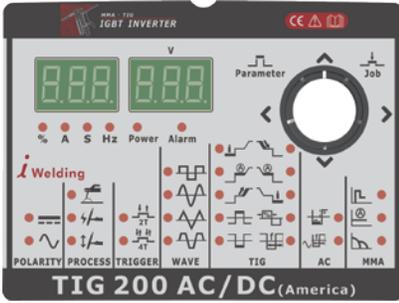
Equipped with temperature,voltage and current sensors for high protection.

TIG 200E AC/DC/200E AC/DC PULSE

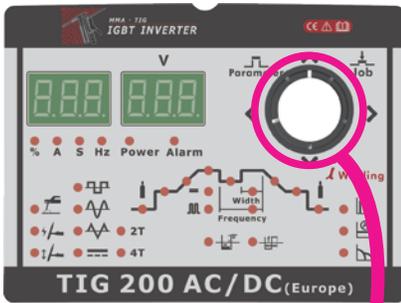
Parameters

Model	TIG 200E AC/DC		TIG 200E AC/DC PULSE	
Power Supply Voltage <u>V</u>	1~220/230/240±10%		1~220/230/240±10%	
Fre. <u>HZ</u>	50/60		50/60	
Rated Input Power <u>KW</u>	4.3(AC TIG) 3.8(DC TIG)	5.7(MMA)	4.3(AC TIG) 3.8(DC TIG)	5.7(MMA)
Rated Input Current <u>A</u>	30(AC TIG) 27(DC TIG)	36.6(MMA)	30(AC TIG) 27(DC TIG)	36.6(MMA)
Duty Cycle <u>40°C 10min</u>	35%200A(AC TIG) 60%155A(AC TIG) 100%120A(AC TIG)	40%170A(MMA&DC TIG) 60%140A(MMA&DC TIG) 100%110A(MMA&DC TIG)	35%200A(AC TIG) 60%155A(AC TIG) 100%120A(AC TIG)	40%170A(MMA&DC TIG) 60%140A(MMA&DC TIG) 100%110A(MMA&DC TIG)
No Load Voltage <u>V</u>	52		52	
Welding Current Range <u>A</u>	10~200(AC TIG)	10~170(MMA&DC TIG)	10~200(AC TIG)	10~170(MMA&DC TIG)
Down slope <u>S</u>	0~10		0~10	
Post Flow <u>S</u>	1~10		1~10	
Pulse frequency <u>HZ</u>	/		0.5~200	
AC frequency <u>HZ</u>	60		60	
Pulse width range <u>%</u>	/		5~95	
Clearance effect(AC TIG)	15~50		15~50	
Efficiency <u>%</u>	≥85		≥85	
Net Weight <u>kg</u>	7.0		7.0	
Dimensions <u>mm</u>	410x146x278		410x146x278	
Insulation Class	IP23		IP23	
Protection Class	H		H	
Cooling	AF		AF	

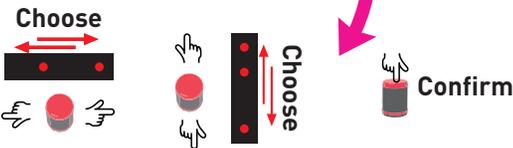
TIG 200 AC/DC



North America



Europe



-  Potentiometer Remote control Torch
-  Up/Down Remote control Torch
-  Remote Foot Control

-  Easy Arc Striking
-  Welding at extra low currents
-  Wireless Remote Control **OPTION**

-  MCU Control System
-  440V Tested in production
-  Generator Friendly

-  Input Voltage 220V 50/60Hz
-  AC/DC Technology

THE LIGHTEST
Only 10.0kg



12PIN



Parameters

Model	TIG 200 AC/DC	
Power Supply Voltage V	1~220/230/240±10%	
Fre. HZ	50/60	
Rated Input Power KW	4.3(TIG) 6.2(MMA) AC	3.7(TIG) 5.7(MMA) DC
Rated Input Current A	30(TIG) 42(MMA) AC	28(TIG) 38(MMA) DC
Duty Cycle 40°C 10min	35%200A(AC) 60%155A(AC) 100%120A(AC)	40%170A(DC) 60%140A(DC) 100%110A(DC)
No Load Voltage V	66	
Welding Current Range A	5~200(AC)	5~170(DC)
Up slope/Down slope S	0~10	
Pre/Post Flow S	0.1~10/1~10	
Pulse frequency HZ	0.5~200	
AC frequency HZ	50~250	
Pulse width range %	5~95	
Clearance effect(AC TIG)	15~50	
Efficiency %	≥ 85	
Net Weight kg	10.0	
Dimensions mm	465x146x278	
Insulation Class	IP23	
Protection Class	H	
Cooling	AF	

Accessories

- Remote Foot Control
- Wireless Remote Fingertip Control
- Remote Foot Control
- Up/Down Remote Torch
- Remote Control Torch

Multi-Waveform Output

AC waveforms include square wave, sine wave, triangular wave and trapezoidal wave.

AC Balance Control

AC balance(50~85%)control monitors the oxide and helps better cleaning during aluminum welding.

Protections

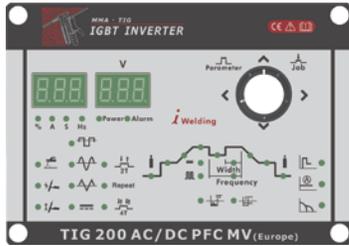
Equipped with temperature, voltage and current sensors for high protection.

AC/DC INVERTER HF TIG WELDER

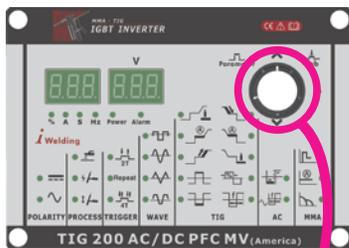
	Potentiometer Remote control Troch		Easy Arc Striking		Power Factor Correction 90~275V 0.99		Input Voltage 220V 50/60Hz		Wireless Remote Foot Control		AC/DC Technology
	Up/Down Remote control Troch		Welding at extral low currents		440V Tested in production		Wireless Remote Control OPTION		Generator Friendly		MCU Control System

TIG 200 AC/DC PFC MV

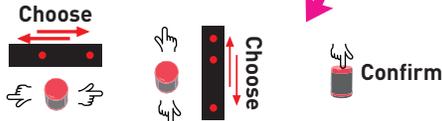
Europe



North America



UNIVERSAL



12PIN



Parameters

Model	TIG 200 AC/DC PFC MV			
Power Supply Voltage <u>V</u>	90~275			
Fre.HZ	50/60			
Rated Input Power <u>KW</u>	1~110/120/130±10%	1~220/230/240±10%		
Rated Input Current <u>A</u>	4.2(MMA)	3.6(TIG)	6.6(MMA)	4.7(TIG)
	40(MMA)	32(TIG)	28(MMA)	21(TIG)
	MMA	TIG	DC	AC
Duty Cycle <u>40°C 10min</u>	130A 30% 110A 60% 80A 100%	160A 60% 125A 100%	200A 35% 140A 60% 110A 100%	200A 60% 155A 100%
No Load Voltage <u>V</u>	67			
Welding Current Range <u>A</u>	5~130	5~160	5~200	
Up slope/Down slope Flow <u>S</u>	0~10			
Pre/Post Flow <u>S</u>	0.1~10/1~10			
Pulse frequency <u>HZ</u>	0.5~200			
AC frequency <u>HZ</u>	50~250			
Pulse width range <u>%</u>	5~95			
Clearance effect(AC TIG)	15~50			
Efficiency <u>%</u>	80			
Net Weight <u>kg</u>	15			
Dimensions <u>mm</u>	492x189x350			
Insulation Class	IP23			
Protection Class	H			
Cooling	AF			

Accessories

- Remote Foot Control
- Wireless Remote Fingertip Control
- Wireless Remote Foot Control
- Up/Down Remote Torch
- Remote Control Torch

PFC Technology

Power factor more than 0.99. Multiple advantages such as energy saving and wider input voltage, works with 110V and 220V.

Smart Knob Operation

Easy and intuitive parameter selection with Smart Knob.

Multi-Waveform Output

AC waveforms include square wave, sine wave, triangular wave and trapezoidal wave.

AC Balance Control

AC balance(50~85%)control monitors the oxide and helps better cleaning during aluminum welding.

Protections

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

Heavy Industrial Use!

UNIVERSAL
NEW
TIG 280MV AC/DC

Easy Arc Striking

Up/Down Remote control Troch

IGBT Module

Potentiometer Remote control Troch

Wireless Remote Foot Control

Wide Input Voltage Range

AC/DC Technology

Wireless Remote Control

Generator Friendly

MCU Control System
Accessories

- Remote Foot Control
- Wireless Remote Fingertip Control
- Wireless Remote Foot Control
- Up/Down Remote Torch
- Remote Control Torch

Multi-Waveform Output

AC waveforms include square wave, sine wave, triangular wave.

AC Balance Control

AC balance[50~85%]control monitors the oxide and helps better cleaning during aluminum welding.

Protections

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



Up/Down slope(S)	0-10
Pre/Post Flow(S)	0-2/0-10
Pulse Fre.(HZ)	0.5-200
Pulse Width Range	5-95
AC Fre. (HZ)	50-250

Parameters

Model	TIG 280MV AC/DC															
Power Supply Voltage \underline{V}	110VAC~460VAC															
Fre.HZ	50/60															
Rated Input Power \underline{KW}	1~110±10%		1~220±10%		1~380±10%		1~460±10%		3~220±10%		3~380±10%		3~460±10%			
	3.1	3.6	5.1	6.8	7.6	10.6	7.4	10.2	7.7	10.3	7.7	10.6	7.7	10.6		
Rated Input Current \underline{A}	26		32.5		23.2		31.5		20.4		29		16.8		23.7	
	TIG	MMA	TIG	MMA	TIG	MMA	TIG	MMA	TIG	MMA	TIG	MMA	TIG	MMA		
Duty Cycle $\underline{40^{\circ}C}$ 10min	60%		30%		50%		45%		35%		40%		35%			
	150A		130A		200A		200A		280A		280A		280A			
	100%		60%		60%		60%		60%		60%		60%			
	120A		75A		145A		135A		170A		215A		230A			
No Load Voltage \underline{V}	67															
Welding Current Range \underline{A}	5~150				5~130				5~200				5~200			
Power Factor	0.99							0.95								



Potentiometer
Remote control
Torch



Easy Arc
Striking



3 Phase
380V/400V
415V/440V
50Hz/60Hz



Heavy
Duty Cycle



Generator
Friendly



Up/Down
Remote control
Torch



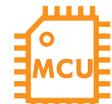
Wireless
Remote
Foot Control



PULSE



Wireless
Remote
Control



MCU Control
System



550V Tested
in production



Phase
Loss
Protection



AC/DC
Technology



IGBT
Module

NEW

Heavy Industrial Use!

Accessories

- Remote Foot Control
- Wireless Remote Fingertip Control
- Wireless Remote Foot Control
- Up/Down Remote Torch
- Remote Control Torch
- Optional trolley
- Water cooling unit

Multi-Waveform Output

AC waveforms include square wave, sine wave, triangular wave.

AC Balance Control

AC balance(50~85%)control monitors the oxide and helps better cleaning during aluminum welding.

Protections

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

Power Factor	0.75
Efficiency	≥85
Cooling	AF
Insulation Class	H
Protection Class	IP23
AC Fre. (HZ)	50-250



TIG 320/400 AC/DC PULSE

Parameters

Model	Power Supply Voltage	Rated Input Power KW		Rated Input Current A		Duty Cycle 40°C 10min	No Load Voltage V	Welding Current Range A	Up Slope/ Down Slope S	Pre/Post Flow S	Pulse Fre. HZ	Pulse Width Range %	Net Weight kg	Dimensions mm
		TIG	MMA	TIG	MMA									
TIG 320 AC/DC PULSE	3~380 ±10%	9.5	12	15.5	24	60%320A 100%250A	50	10~320	0~10	0~2/ 0~10	0.5~200	5~95	25.5	550x240x445
TIG 400 AC/DC PULSE	3~380 ±10%	12.1	18.5	24.5	33	60%400A 100%310A	50	10~400	0~10	0~2/ 0~10	0.5~200	5~95	27	550x240x445

MIG RANGE
MULTIMIG RANGE
DC INVERTER
MIG/MAG
WELDER

MODEL:

MIG 140/160/200

MULTIMIG 160/200/200D



IGBT TECHNOLOGY
FULL BRIDGE



DC INVERTER MIG WELDER



Φ203mm (5kg) | Φ102mm (1kg)



440V Tested in production



Moisture Proof
Salt Spray Proof
Corrosion Proof



Input Voltage



Generator Friendly

MIG 140/160/200

Aluminum Wire Feeder



Digital display

Variable amperage control with digital meter, for a simultaneous welding current and voltage display.

Spool

Capable of loading up to 5KG spool.

Arc Stability

Waveform control, for added stability of the arc, even at low currents.

Protections

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

Parameters

Model	MIG 140	MIG 160	MIG 200
Power Supply Voltage <u>V</u>	1~220/230/240±10%	1~220/230/240±10%	1~220/230/240±10%
Fre. HZ	50/60	50/60	50/60
Rated Input Power <u>KW</u>	3.5	4.6	5.6
Rated Input Current <u>A</u>	24	32	40
Duty Cycle <u>40°C 10min</u>	30%140A 60%100A 100%80A	40%160A 60%135A 100%105A	30%200A 60%145A 100%110A
No Load Voltage <u>V</u>	72	46	46
Welding Current Range <u>A</u>	40~140	40~160	40~200
Welding Voltage Range <u>V</u>	12~21	12~22	12~24
Efficiency %	85%	85%	85%
Power Factor	0.65	0.65	0.65
Wire Diameter <u>mm</u>	0.6/0.8/0.9(Fe/Ss/Flux-Cored)	0.6/0.8/0.9(Fe/Ss/Flux-Cored)	0.6/0.8/0.9/1.0(Fe/Ss/Flux-Cored)
Net Weight <u>kg</u>	11	12	12
Dimensions <u>mm</u>	471x213x400	471x213x400	471x213x400
Insulation Class	H	H	H
Protection Class	IP23	IP23	IP23
Cooling	AF	AF	AF


Input Voltage

440V Tested in production 220V

Voltage Reduction Device

Spool Gun

Generator Friendly
Multimig 160/200
MULTIMIG 160/200/200D

Arc Stability

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

Digital display

Variable amperage control with digital meter, for a simultaneous welding current and tension display.

Protections

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


 Φ 203mm(5kg)
 Φ 102mm(1kg)

Aluminum Wire Feeder


Φ 300mm(20kg)


4 Rolls wire feeder
Parameters

Model	MULTIMIG 160			MULTIMIG 200			MULTIMIG 200D	
Power Supply Voltage ∇	1~220/230/240±10%			1~220/230/240±10%			1~220/230/240±10%	
Fre.HZ	50/60			50/60			50/60	
	MIG	TIG	MMA	MIG	TIG	MMA	MMA	MIG
Rated Input Power KW	4.2	3.4	4.9	5.9	4.3	6.3	4.9	5.9
Rated Input Current A	28	24	30	42	31	44	30	42
Duty Cycle 40°C 10min	40%160A 60%130A 100%100A			40%200A 60%165A 100%130A			45%160A 60% 140A 100%110A	35%200A 60%155A 100%120A
No Load Voltage ∇	63			63			63	
Welding Current Range A	40~160	10~160	10~160	40~200	10~200	10~200	40~200	10~160
Welding Voltage Range ∇	13.5~24			13.5~27			13.5~27	
Efficiency %	0.85			0.85			0.85	
Power Factor	0.75			0.75			0.75	
Wire Diameter mm	Fe:0.6./0.8/0.9/1.0			Ss:0.8/0.9/1.0			Flux-Cored:0.6/0.8/0.9/1.0	
Net Weight kg	13.5			15			20.5	
Dimensions mm	511x213x400			511x213x400			618x240x445	
Insulation Class	H			H			H	
Protection Class	IP23			IP23			IP23	
Cooling	AF			AF			AF	

DC INVERTER MIG WELDER

MIG/MULTIMIG PFC RANGE
SYNERGETIC RANGE

DC INVERTER MIG/MAG PFC WELDER



MODEL:

PFC

MIG 180 PFC MV

MULTIMIG 200/250 PFC MV

SYN

MULTIMIG 160/200 SYN

PFC SYN

MULTIMIG 200/250 PFC SYN

POWER MIG 200 LCD *NEW!*



Spool Gun



Generator Friendly



Φ 203mm(5kg)
Φ 102mm(1kg)



Input Voltage
220V
50/60Hz



440V Tested
in production
220V



Power Factor Correction
90~275V
0.99

MIG 180 PFC MV



UNIVERSAL



Aluminum Wire Feeder



Parameters

PFC Technology

Power factor more than 0.99. Multiple advantages such as energy saving and wider input voltage, works with 110V and 220V.

Arc Stability

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

Digital display

Variable amperage control with digital meter, for a simultaneous welding current and voltage display.

Protections

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

Model	MIG 180 PFC MV	
Power Supply Voltage <u>V</u>	90~275	
Fre. <u>HZ</u>	50/60	
Rated Input Power <u>KW</u>	1~110/120/130±10%	1~220/230/240±10%
	2.8	5.1
Rated Input Current <u>A</u>	25	24.6
Duty Cycle <u>40°C 10min</u>	30%110A 60%80A	20%180A 60%105A
	100%65A	100%80A
No Load Voltage <u>V</u>	42	
Welding Current Range <u>A</u>	50~110	50~180
Welding Voltage Range <u>V</u>	13.5~19	13.5~23
Efficiency %	85	
Power Factor	0.99	
Wire Diameter <u>mm</u>	Fe:0.6/0.8/0.9/1.0 Ss:0.8/0.9/1.0 Flux-Cored:0.6/0.8/0.9/1.0	
Net Weight <u>kg</u>	13	
Dimensions <u>mm</u>	511x213x400	
Insulation Class	H	
Protection Class	IP23	
Cooling	AF	

MULTIMIG PFC RANGE

DC INVERTER MIG WELDER

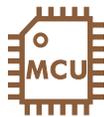
MULTIMIG 200/250 PFC MV



440V Tested
in production



Power
Factor
Correction



MCU Control
System



Spool
Gun



Input
Voltage



Generator
Friendly



Voltage
Reduction
Device



Aluminum
Wire Feeder



Φ 203mm(5kg)
Φ 102mm(1kg)



UNIVERSAL



2 Rolls wire feeder
STANDARD



4 Rolls wire feeder
OPTION



Φ 300mm(20kg)



PFC technology
Power factor more than 0.99.
Multiple advantages such as
energy saving and wider
input voltage, works with
110V and 220V.

Multipurpose
MIG, TIG and MMA Modes
selectable.

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



Parameters

Model	MULTIMIG 200 PFC MV						MULTIMIG 250 PFC MV					
Power Supply Voltage <u>V</u>	90~275						90~275					
Fre. <u>HZ</u>	50/60						50/60					
Rated Input Power <u>KW</u>	1~110/120/130±10%			1~220/230/240±10%			1~110/120/130±10%			1~220/230/240±10%		
	MIG	MMA	TIG	MIG	MMA	TIG	MIG	MMA	TIG	MIG	MMA	TIG
	4	3.5	3.2	6.2	6.2	4.2	4.6	4.2	3.0	8.3	9.2	6.4
Rated Input Current <u>A</u>	37.8			29			42			37		
	35%140A	30%110A	40%150A	30%200A	25%200A	35%200A	30%160A	35%130A	35%140A	35%250A	30%250A	35%250A
	60%110A	60%80A	60%125A	60%145A	60%130A	60%155A	60%115A	60%100A	60%110A	60%195A	60%180A	60%195A
Duty Cycle <u>40°C 10min</u>	100%85A			100%95A			100%90A			100%150A		
	100%85A	100%65A	100%95A	100%110A	100%100A	100%120A	100%90A	100%80A	100%85A	100%150A	100%140A	100%150A
No Load Voltage <u>V</u>	65						65					
Welding Current Range <u>A</u>	40~200						40~250					
Welding Voltage Range <u>V</u>	14~24						14~26.5					
Efficiency <u>%</u>	80						80					
Power Factor	0.99						0.99					
Wire Diameter <u>mm</u>	Fe:0.6/0.9/1.0 Ss:0.8/0.9/1.0 Flux-Cored:0.6/0.8/9.0/1.0						Fe:0.6/0.9/1.0 Ss:0.8/0.9/1.0 Flux-Cored:0.6/0.8/9.0/1.0					
Net Weight <u>kg</u>	15						23					
Dimensions <u>mm</u>	511x213x400						618x240x445					
Insulation Class	H						H					
Protection Class	IP23						IP23					
Cooling	AF						AF					

MULTIMIG PFC RANGE

DC INVERTER MIG WELDER



Synergetic



Input Voltage
90-275V
50/60Hz



Power Factor Correction
90-275V
0.99



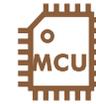
440V Tested
in production



Spool Gun



Voltage Reduction Device
safe



MCU Control System



Generator Friendly



PFC technology

Power factor more than 0.99. Multiple advantages such as energy saving and wider input voltage, works with 110V and 220V.

Arc Stability

Waveform control, for added stability of the arc, even at low currents.

Protections

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



MULTIMIG 200/250 PFC SYN



Φ 203mm(5kg)
Φ 102mm(1kg)



Aluminum Wire Feeder



2 Rolls wire feeder
STANDARD



4 Rolls wire feeder
OPTION



Φ 300mm(20kg)

Parameters

Model	MULTIMIG 200 PFC SYN						MULTIMIG 250 PFC SYN					
Power Supply Voltage <u>V</u>	90~275						90~275					
Fre. <u>Hz</u>	50/60						50/60					
Rated Input Power <u>KW</u>	1~110/120/130±10%			1~220/230/240±10%			1~110/120/130±10%			1~220/230/240±10%		
	MIG	MMA	TIG	MIG	MMA	TIG	MIG	MMA	TIG	MIG	MMA	TIG
Rated Input Current <u>A</u>	4	3.5	3.2	6.2	6.2	4.2	4.6	4.2	3.0	8.3	9.2	6.4
Duty Cycle <u>40°C 10min</u>	37.8	32	29	29	30	20	42	40	26.5	37	41	28.5
	35%140A	30%110A	40%150A	30%200A	25%200A	35%200A	30%160A	35%130A	35%140A	35%250A	30%250A	35%250A
	60%110A	60%80A	60%125A	60%145A	60%130A	60%155A	60%115A	60%100A	60%110A	60%195A	60%180A	60%195A
	100%85A	100%65A	100%95A	100%110A	100%100A	100%120A	100%90A	100%80A	100%85A	100%150A	100%140A	100%150A
No Load Voltage <u>V</u>	65						65					
Welding Current Range <u>A</u>	40~200						40~250					
Welding Voltage Range <u>V</u>	14~24						14~26.5					
Efficiency <u>%</u>	80						80					
Power Factor	0.99						0.99					
Wire Diameter <u>mm</u>	Fe:0.6/0.9/1.0 Ss:0.8/0.9/1.0 Flux-Cored:0.6/0.8/9.0/1.0						Fe:0.6/0.9/1.0 Ss:0.8/0.9/1.0 Flux-Cored:0.6/0.8/9.0/1.0					
Net Weight <u>kg</u>	15						23					
Dimensions <u>mm</u>	511x213x400						618x240x445					
Insulation Class	H						H					
Protection Class	IP23						IP23					
Cooling	AF						AF					

POWER MIG 200 LCD



320x480 TFT



Synergetic



Power Factor Correction



440V Tested in production



Voltage Reduction Device



MCU Control System



Spool Gun



Input Voltage



Generator Friendly

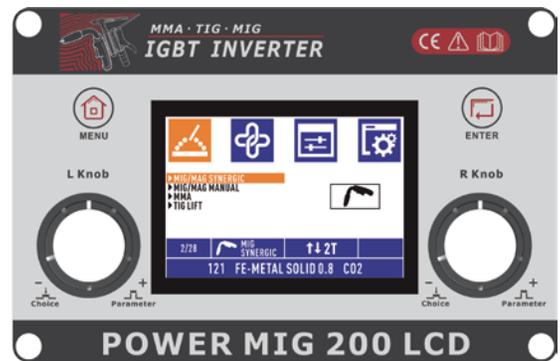


Moisture Proof
Salt Spray Proof
Corrosion Proof

NEW

LCD SCREEN!

EASY & INTUITIVE



Aluminum Wire Feeder



Φ 203mm(5kg)
Φ 102mm(1kg)

LCD display
300,000 ture colors.

PFC technology
Power factor more than 0.99. Multiple advantages such as energy saving and wider input voltage, works with 110V and 220V.

Spool
Capable of loading up to 5KG spool.

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

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

Parameters

Model	POWER MIG 200 LCD					
Power Supply Voltage <u>V</u>	90~275					
Fre. <u>HZ</u>	50/60					
Rated Input Power <u>KW</u>	1~110/120/130±10%			1~220/230/240±10%		
	MIG	MMA	TIG	MIG	MMA	TIG
	3.7	4.1	2.8	6.0	6.2	4.2
Rated Input Current <u>A</u>	35			44		
	30% 130A			35% 200A		
	60% 95A			60% 155A		
Duty Cycle <u>40°C 10min</u>	100% 75A			100% 120A		
No Load Voltage <u>V</u>	65					
Welding Current Range <u>A</u>	40~200					
Welding Voltage Range <u>V</u>	14~24					
Efficiency <u>%</u>	85					
Power Factor	0.99					
Wire Diameter <u>mm</u>	Fe:0.6/0.9/1.0 Ss:0.8/0.9/1.0 Flux-Cored:0.6/0.8/9.0/1.0					
Net Weight <u>kg</u>	12					
Dimensions <u>mm</u>	511x213x400					
Insulation Class	H					
Protection Class	IP23					
Cooling	AF					

DC INVERTER MIG WELDER

INDUSTRIAL LINE

MIG RANGE
MIG F RANGE

DC INVERTER MIG WELDER

MODEL:

MIG
250-1/250-3/315

MIG F
315F/350F/400F/500F



NEW

IGBT MODULE



MIG 250-1/250-3/315

Φ 300mm(20kg)

Heavy Duty Cycle

**3 Phase
380V/400V
415V/440V
50Hz/60Hz**

Phase Loss Protection

Generator Friendly

2 Rolls wire feeder STANDARD **4 Rolls wire feeder OPTION**

Arc Stability

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

Protections

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

Big Spool

Capable of loading up to 20KG spool.

Arc stability

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

Wire Feeder

4 rolls wire feeder available on request.

Parameters

Model	MIG 250-1	MIG 250-3	MIG 315
Power Supply Voltage V	1~220/230/240±10%	3~380±10%	3~380±10%
Fre.HZ	50/60	50/60	50/60
Rated Input Power KW	7.3	7.6	11
Rated Input Current A	50	21	23
Duty Cycle 40°C 10min	60%250A 100%200A	60%250A 100%200A	40%315A 60%250A 100%200A
No Load Voltage V	47	48	53
Welding Current Range A	50~250	50~250	50~315
Welding Voltage Range V	13.5~26.5	13.5~26.5	13.5~30
Efficient %	85	85	85
Power Factor	0.7	0.72	0.72
Wire Diameter mm	Fe:0.6/0.8/0.9/1.0/1.2 Ss:0.8/0.9/1.0/1.2 Flux-cored:0.6/0.8/0.9/1.0/1.2		
Net Weight kg	23	25	25
Dimensions mm	618x240x445	618x240x445	618x240x445
Insulation Class	H	H	H
Protection Class	IP23	IP23	IP23
Cooling	AF	AF	AF



Φ 300mm(20kg)



Heavy Duty Cycle



IGBT MODULE



550V Tested in production

Heavy Industrial Use!

NEW

MIG 315F/350F/400F/500F



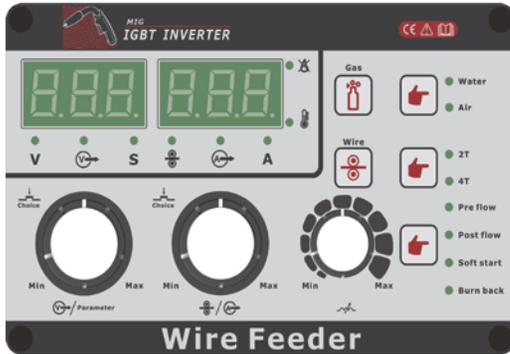
Phase Loss Protection



3 Phase 380V/400V 415V/440V 50Hz/60Hz



Generator Friendly



Arc Stability

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

Digital display

Variable amperage control with digital meter, for a simultaneous welding current and tension display.

Protections

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

Accessories

Optional trolley and water cooling unit.

Efficiency	≥85
Cooling	AF
Insulation Class	H
Protection Class	IP23



Parameters

Model	MIG 315F	MIG 350F	MIG 400F	MIG 500F
Power Supply Voltage V	3~380±10%	3~380±10%	3~380±10%	3~380±10%
Fre. HZ	50/60	50/60	50/60	50/60
Rated Input Power KW	11	13.5	16	26
Rated Input Current A	23	28	36	41
Duty Cycle 40°C 10min	40%315A 60%250A 100%200A	60%350A 100%275A	60%400A 100%310A	60%500A 100%390A
No Load Voltage V	53	56	68	90
Welding Current Range A	50~315	50~350	50~400	35~500
Welding Voltage Range V	13.5~30	13.5~40	13.5~40	13.5~50
Wire Diameter mm	Fe:0.6/0.9/1.0/1.2 Ss:0.8/0.9/1.0/1.2 Flux-Cored:0.6/0.8/9.0/1.0/1.2		Fe:0.6/0.9/1.0/1.2/1.6 Ss:0.8/0.9/1.0/1.2/1.6 Flux-Cored:0.6/0.8/9.0/1.0/1.2/1.6	
Net Weight kg	20	21	23	30
Dimensions mm	555x240x445	555x240x445	555x240x445	555x240x445
Power Factor	0.7	0.7	0.7	0.95

PLASMA CUT/
PFC/CNC RANGE
**DC INVERTER
PLASMA
CUTTER**

MODEL:

CUT 40PA

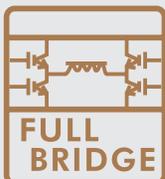
CUT 40 PFC MV

CNC

CUT 40 PFC MV (CNC)

CUT60-1(CNC)

CUT65(CNC)



**IGBT TECHNOLOGY
FULL BRIDGE**





440V
Tested in
production



Moisture Proof
Salt Spray Proof
Corrosion Proof



Generator
Friendly



Carbon Steel



Aluminum



Copper

Max. cutting thickness



Cutting Performance



Parameters

Model	Cut 40PA
Power Supply Voltage V	160~275
Fre. HZ	50/60
Rate Input Power KW	4.9
Rate Input Current A	32
Duty Cycle 40°C 10min	60%40A 100%30A
No Load Voltage V	220
Cutting Current range A	20~40
Severance Cut for Carbon Steel mm	≤25
Production Carbon Steel	≤20
Production Stainless Steel	≤20
Cut mm Aluminum	≤16
Copper	≤12
Net Weight kg	6.2
Dimensions mm	460x146x278
Insulation Class	H
Protection Class	IP23
Cooling	AF
Power Factor	0.7

Pilot Arc Controller

Increases cutting capabilities and speed.
Extends tip's life. Ideal for grid cutting.

Protections

Various protective and alarm functions for
over-temperature and over-current.

Weight

Extremely low weight and versatility.



Input Voltage



Power Factor Correction



440V Tested in production



Generator Friendly

CUT 40 PFC MV



UNIVERSAL



Carbon Steel



Aluminum



Copper

Max. cutting thickness



Cutting Performance



Parameters

Wide Input Voltage
90VAC~275VAC.

Pilot Arc Controller
Increases cutting capabilities and speed. Extends tip's life. Ideal for grid cutting.

Protections
Various protective and alarm functions for over-temperature and over-current.

PFC Technology
Power factor more than 0.99. Multiple advantages such as energy saving and wider input voltage, works with 110V and 220V.

Model	Cut 40PFC MV		
Power Supply Voltage V	90VAC~275VAC		
Fre. HZ	50/60		
	1~110/120/130±10%	1~220/230/240±10%	
Rate Input Power KW	3.8	4.9	
Rate Input Current A	34.5	22.6	
Duty Cycle 40°C 10min	35%30A	50%40A	
	60%22A 100%20A	60%36A 100%30A	
No Load Voltage V	320		
Cutting Current range A	20~30	20~40	
Severance Cut for Carbon Steel mm	≤20	≤25	
	Carbon Steel	≤15	≤20
	Production Stainless Steel	≤15	≤20
	Cut mm Aluminum	≤12	≤16
	Copper	≤8	≤12
Net Weight kg	7		
Dimensions mm	480x146x278		
Insulation Class	H		
Protection Class	IP23		
Cooling	AF		
Power Factor	0.99		

PLASMA CUT CNC RANGE

DC INVERTER PLASMA WELDER



Input Voltage



Power Factor Correction



440V Tested in production



Generator Friendly



UNIVERSAL



Carbon Steel



Aluminum



Copper

Max. cutting thickness



Cutting Performance



CUT 40 PFC MV CNC

Parameters

Model Cut 40PFC MV CNC

Power Supply Voltage V	90VAC~275VAC	
Fre. HZ	50/60	
	1~110/120/130±10%	1~220/230/240±10%
Rate Input Power KW	3.8	4.9
Rate Input Current A	34.5	22.6
Duty Cycle 40°C10min	35%30A	50%40A
	60%22A 100%20A	60%36A 100%30A
No Load Voltage V	320	
Cutting Current range A	20~30	20~40
Severance Cut for Carbon Steel mm	≤20	≤25
Production Cut mm	Carbon Steel	≤20
	Stainless Steel	≤20
	Aluminum	≤16
	Copper	≤12
Net Weight kg	12	
Dimensions mm	470x213x400	
Insulation Class	H	
Protection Class	IP23	
Cooling	AF	
Power Factor	0.99	

Pilot Arc Controller

Increases cutting capabilities and speed. Extends tip's life. Ideal for grid cutting.

Protections

Various protective and alarm functions for over-temperature and over-current.

Weight

Extremely low weight and versatility.



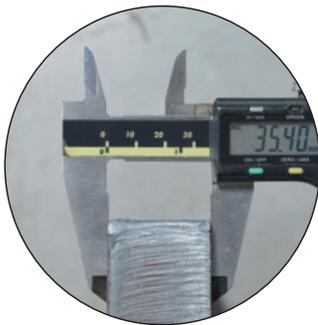
Input Voltage



OPTION



Cutting Performance



Carbon Steel
Max. cutting thickness



Parameters

Heavy Duty Cycle
More than 90%.

Pilot Arc Controller
Increases cutting capabilities and speed. Extends tip's life. Ideal for grid cutting.

Protections
Various protective and alarm functions for over-temperature and over-current.

Model	Cut 60-1(CNC)	
Power Supply Voltage <u>V</u>	1~220/230/240±10%	
Fre. <u>HZ</u>	50/60	
Rate Input Power <u>KW</u>	7.1	
Rate Input Current <u>A</u>	41	
Duty Cycle <u>40°C10min</u>	95%60A 100%58A	
No Load Voltage <u>V</u>	400	
Cutting Current range <u>A</u>	20~60	
Severance Cut for Carbon Steel <u>mm</u>	≤35	
Production Cut <u>mm</u>	Carbon Steel	≤25
	Stainless Steel	≤25
	Aluminum	≤20
	Copper	≤14
Net Weight <u>kg</u>	23	
Dimensions <u>mm</u>	640x240x445	
Insulation Class	H	
Protection Class	IP23	
Cooling	AF	

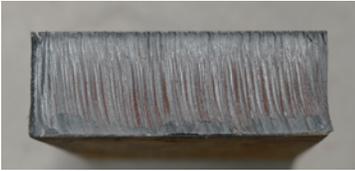
CUT 60-1(CNC)



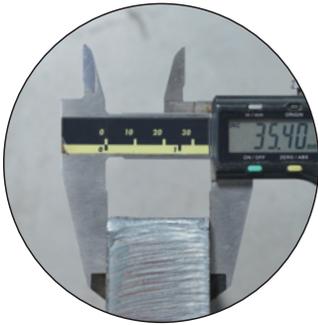
OPTION



3 Phase
380V/400V
415V/440V
50Hz/60Hz



Cutting Performance



Carbon Steel
Max. cutting thickness



CUT 65(CNC)

Parameters

Model	Cut 65(CNC)
Power Supply Voltage <u>V</u>	3~380±10%
Fre. <u>Hz</u>	50/60
Rate Input Power <u>KW</u>	7.8
Rate Input Current <u>A</u>	17.4
Duty Cycle <u>40°C10min</u>	90% 65A 100% 61A
No Load Voltage <u>V</u>	300
Cutting Current range <u>A</u>	20~65
Severance Cut for Carbon Steel <u>mm</u>	≤35
Production Cut <u>mm</u>	≤25
Carbon Steel	≤25
Stainless Steel	≤20
Aluminum	≤14
Copper	
Net Weight <u>kg</u>	24
Dimensions <u>mm</u>	640x240x445
Insulation Class	H
Protection Class	IP23
Cooling	AF

Heavy Duty Cycle
More than 90%.

Pilot Arc Controller
Increases cutting capabilities and speed. Extends tip's life. Ideal for grid cutting.

Protections
Various protective and alarm functions for over-temperature and over-current.



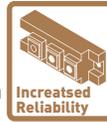
3 Phase
380V/400V
415V/440V
50Hz/60Hz



550V Tested
in production



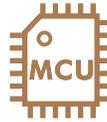
Phase
Loss
Protection



IGBT
Module



Digital
Pressure
Meter



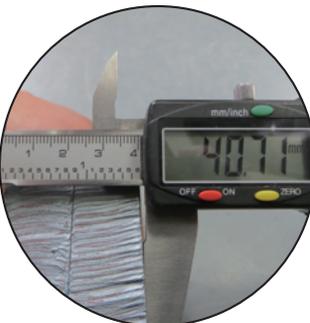
MCU
Control
System

Heavy Industrial Use!

NEW



**Carbon Steel
Max. cutting thickness**



**Carbon Steel
Quality cutting thickness**



Power Factor 0.76

Parameters

Pilot Arc Controller

Increases cutting capabilities and speed.
Extends tip's life. Ideal for grid cutting.

Protections

Various protective and alarm functions
for over-temperature and over-current.

Model	Cut 100 CNC	
Power Supply Voltage <u>V</u>	3~380±10%	
Fre. <u>HZ</u>	50/60	
Rate Input Power <u>KW</u>	19	
Rate Input Current <u>A</u>	36.8	
Duty Cycle <u>40°C10min</u>	60%100A 170V 100% 80A	
No Load Voltage <u>V</u>	495	
Cutting Current range <u>A</u>	20~100	
Severance Cut for Carbon Steel <u>mm</u>	≤50	
Production Cut <u>mm</u>	Carbon Steel	≤40
	Stainless Steel	≤40
	Aluminum	≤36
	Copper	≤20
Net Weight <u>kg</u>	23	
Dimensions <u>mm</u>	640x240x445	
Insulation Class	H	
Protection Class	IP23	
Cooling	AF	



Input Voltage

CUT 40



Input Voltage

CUT 25



Compressor Inside



440V Tested in production

CUT 40



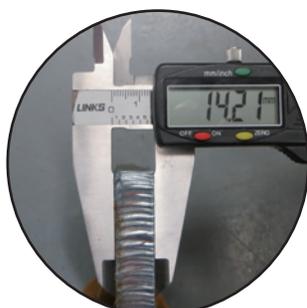
220V Tested in production

CUT 25

Cut 40 COM



Carbon Steel
Max. cutting thickness



Carbon Steel
Quality cutting thickness

NEW



CUT 25(110V)/40 COM

Parameters

Model	Cut 25 COM	Cut 40 COM
Power Supply Voltage <u>V</u>	1~110/120/130±10%	1~220/230/240±10%
Fre. <u>HZ</u>	50/60	50/60
Rate Input Power <u>KW</u>	2.7	4.9
Rate Input Current <u>A</u>	37.5	32
Duty Cycle <u>40°C10min</u>	60%25A	60%40A 100%30A
No Load Voltage <u>V</u>	220	220
Cutting Current range <u>A</u>	25	20~40
Severance Cut for Carbon Steel <u>mm</u>	≤ 10	≤ 18
Production Cut <u>mm</u>	Carbon Steel	≤ 8
	Stainless Steel	≤ 8
	Aluminum	≤ 4
	Copper	≤ 2
Net Weight <u>kg</u>	18	18
Dimensions <u>mm</u>	520x213x400	520x213x400
Insulation Class	H	H
Protection Class	IP23	IP23
Cooling	AF	AF

Pilot Arc Controller

Increases cutting capabilities and speed. Extends tip's life. Ideal for grid cutting.

Protections

Various protective and alarm functions for over-temperature and over-current.

NORTH AMERICA TYPE



Three AA Batteries



Easy to carry



Energy Saving mode
Extends battery life.

Synchronization
Guarantees use of multiple devices simultaneously avoiding interference.

Easy to use
Device control panel and welding machine control panel similarity.

Digital display
Digital display allows presetting percentage of machine output before welding, and viewing amperage while welding.

Same key for ON/OFF

Any key to exit from Standby mode

All the functions adjustable on the device control panel

EUROPE TYPE



Parameters

Model	WIRELESS REMOTE CONTROL NORTH AMERICA TYPE	WIRELESS REMOTE CONTROL EUROPE TYPE
Power Supply Voltage <u>V</u>	Three AA Batteries	Three AA Batteries
Battery Life <u>D</u>	180	180
Rated Range <u>m</u>	< 100	< 100
Temperature <u>°C</u>	-40°C~+80°C	-40°C~+85°C
Rated Frequency <u>HZ</u>	2.4G	2.4G
RF Power <u>mW</u>	1	1
Antenna	integrated	integrated
Dimensions	134x104x67	134x104x67
Weight <u>kg</u>	0.35	0.35

Energy Saving mode

Extends battery life.

Synchronization

Guarantees use of multiple devices simultaneously avoiding interference.

Easy to use

Device control panel and welding machine control panel similarity.

Digital display

Digital display allows presetting percentage of machine output before welding, and viewing amperage while welding.

Same key for ON/OFF

Any key to exit from Standby mode

All the functions adjustable on the device control panel

WIRELESS REMOTE FOOT CONTROL



Three AA Batteries



Easy to Carry



Parameters

Model	WIRELESS REMOTE CONTROL	WIRELESS REMOTE FOOT CONTROL
Power Supply Voltage <u>V</u>	Three AA Batteries	Three AA Batteries
Battery Life <u>D</u>	180	180
Rated Range <u>m</u>	< 100	< 100
Temperature <u>°C</u>	-40°C~+80°C	-40°C~+85°C
Rated Frequency <u>HZ</u>	2.4G	2.4G
RF Power <u>mW</u>	1	1
Antenna	integrated	integrated
Dimensions	134x104x48	258x107x128
Weight <u>kg</u>	0.35	1.8



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