

Professional welding machine manufacturers

MMA



MIG



CUT



TIG

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NEW

HANDHELD WELDER SERIES

Professional welding machine manufacturers

Handheld MMA Welder 

Handheld MIG Welder 

Handheld Weld bead cleaning machine 

Handheld MMA Welder



MMA



-Accessories



- ◆ Ergonomic design eliminates the "tired before use" problem of traditional welding machines.
- ◆ Lightweight body enables one-handed operation, offering greater flexibility for welding in narrow spaces or at height.

-Specifications

Model	MMA 120 Handheld	MMA 120 Handheld
Processes	MMA	MMA
Rated input Voltage(V)	1ph~110V	1ph~220V
Rated Output Current(A)	100A	100A
Duty Cycle(40°C)	20%	20%
Electrode Diameter(mm)	1.6-3.2	1.6-3.2
Dimensions(mm)	163x99x256	163x99x256

Handheld MIG Welder



MIG



-Accessories



- ◆ Ergonomic design eliminates the "tired before use" problem of traditional welding machines.
- ◆ Lightweight body enables one-handed operation, offering greater flexibility for welding in narrow spaces or at height.

-Specifications

Model	MIG 120 Handheld	MIG 120 Handheld
Processes	MIG FLUX	MIG FLUX
Rated input Voltage(V)	1ph~110V	1ph~220V
Rated Output Current(A)	100A	100A
Duty Cycle(40°C)	20%	20%
Electrode Diameter(mm)	0.8-1.0	0.8-1.0
Dimensions(mm)	373x99x327	373x99x327

Handheld Weld bead cleaning machine



Weld Bead
Cleaning

-Accessories



- ◆ Ergonomic design eliminates the "tired before use" problem of traditional welding machines.
- ◆ Lightweight body enables one-handed operation, offering greater flexibility for welding in narrow spaces or at height.

-Specifications

Model	WBC1000 Handheld	WBC1000 Handheld
Processes	Weld Bead Cleaning	Weld Bead Cleaning
Rated input Voltage(V)	1ph~110V	1ph~220V
Rated Output Current(A)	20A	20A
Duty Cycle(40°C)	20%	20%
Power(W)	1000W	1000W
Dimensions(mm)	330x99x256	330x99x256



SMAW: Shielded Metal Arc Welding **MMA: Manual Metal Arc**

Rutile: E6013、 E7014、 E7024、 E6012

Basic: E7018、 E7016

Inox: E308-16、 E309-16、 E316-16

Cast iron: ENi-CI、 ENiFe-CI

Cellulosic: E6010、 E6011

Hot Start

HOT START is an increased welding current value compare to the set value. This extra current will be delivered during the arc strike to facilitate it, This function allows arc strike without metalurgic defective on the welding joint, easy start and anti-sticking function .

Arc Force

It's an automatic welding current increase that is delivered when the arc, during the welding, is too short. Doing so we avoid electrode sticking, a better quality and simplicity of welding, Particularly useful in case of use of basic and celulosic electrodes and during vertical welding).

Anti-Stick

ANT-STICKING: this is an electronic function that control and reduces the welding current to a very low value in case of sticking electrode

VRD

In welding machines, VRD is a safety feature that reduces the open-circuit voltage to a safe level when the machine is idle. This enhances operator safety by minimizing the risk of electric shock, particularly in moist environments or confined spaces. Upon initiating welding, the VRD promptly restores the voltage to the standard operating level necessary for welding processes.

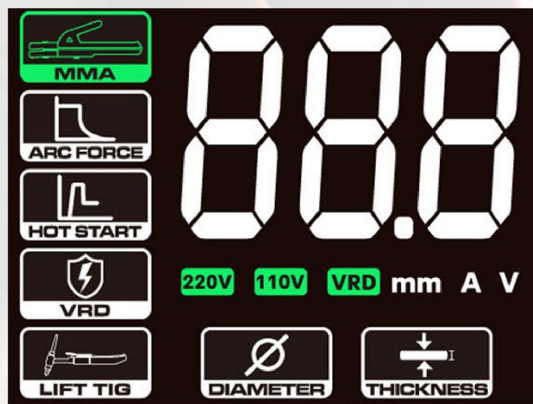
Welding Parameters Adaptation Table

Electrode Diameter(mm)	Plate Thickness(mm)	Welding Current(A)
1.6	1-2.5	30-60
2.5	2-3.5	60-90
3.2	3-5	90-130
4.0	4-7	130-170
5.0	6-10	170-220
6.0	8-12	220-280

MMA FAIRY

HOBBY

1ph ~ 230V



MMA



LIFT TIG



Synergic
MMA



Hot Start
Adjustable



Arc Force
Adjustable



Anti-sticking



Voltage
Reduction
Device



Sheet
Thickness
Select



Input
Voltage
Protection



Over-heat
Protection

Standard accessories



Electrode Holder And Cable



Earth Clamp And Cable



Welding Helmet



Brush

Product Parameters

Model	MMA-120 FAIRY	MMA-140 FAIRY	MMA-160 FAIRY
Input Voltage (V)	1~ 230	1~ 230	1~ 230
Frequency (Hz)	50/60	50/60	50/60
Output Current Range (A)	10-120	10-140	10-160
Absorbed Power (kVA)	5.2	6.2	7.3
Rated Input Current (A)	22.5	27.1	31.9
Effective Current (A)	12.3	14.8	17.5
No load Voltage (V)	65±5	65±5	65±5
	15%120A	15%140A	15%160A
Duty Cycle 40°C 10min	60%60A	60%70A	60%100A
	100%50A	100%60A	100%80A
Efficiency (%)	80	80	80
Power factor	0.72	0.72	0.72
Insulation Class	F	F	F
Protection Class	IP21S	IP21S	IP21S
Electrode Diameter (mm)	1.6-3.2	1.6-3.2	1.6-4.0
Gross Weight (kg)	4.3	4.5	5.2
Product Dimensions (mm)	235x108x156	235x108x156	267x108x165
Packaging Dimensions (mm)	275x148x249	275x148x249	307x148x255



MMA M

HOBBY

1ph ~ 230V



MMA



Hot Start
Built-in



Arc Force
Built-in



Anti-sticking



Input
Voltage
Protection



Over-heat
Protection



IGBT



Fan
Cooling

- Small size light weight, high quality and energy-saving.
- Good arc-starting and arc force, stable arc and little spatter.
- High welding quality, deep penetration.
- Auto protection of over-voltage and over-current.
- It can balance automatically when voltage is fluctuation.
- Suitable for welding all kinds of basic welding rod.

Standard accessories



Electrode Holder And Cable



Each Clamp And Cable



Welding Helmet



Brush

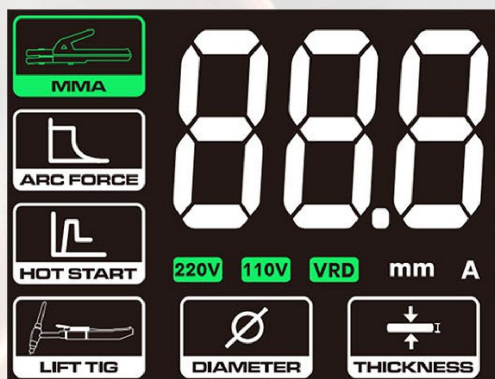
Product Parameters

Model	MMA-120M	MMA-140M	MMA-160M	MMA-180M	MMA-200M
Input Voltage (V)	1~ 230	1~ 230	1~ 230	1~ 230	1~ 230
Frequency (Hz)	50/60	50/60	50/60	50/60	50/60
Output Current Range (A)	10-120	10-140	10-160	10-180	10-200
Absorbed Power (kVA)	5.2	6.2	7.3	8.5	9.7
Rated Input Current (A)	22.5	27.1	31.9	37	42.3
Effective Current (A)	12.3	14.8	17.5	20.2	23.2
No load Voltage (V)	65±5	65±5	65±5	65±5	65±5
	30%120A	30%140A	30%160A	30%180A	30%200A
Duty Cycle 40°C 10min	60%80A	60%90A	60%120A	60%130A	60%150A
	100%60A	100%80A	100%100A	100%110A	100%120A
Efficiency (%)	80	80	80	80	80
Power factor	0.72	0.72	0.72	0.72	0.72
Insulation Class	F	F	F	F	F
Protection Class	IP21S	IP21S	IP21S	IP21S	IP21S
Electrode Diameter (mm)	1.6-3.2	1.6-3.2	1.6-4.0	1.6-5.0	1.6-5.0
Gross Weight (kg)	4.3	4.5	5.2	5.8	6.4
Product Dimensions (mm)	235x108x156	235x108x156	267x108x165	267x108x165	322x112x178
Packaging Dimensions (mm)	275x148x249	275x148x249	307x148x255	307x148x255	362x152x268

MMA D PRO

HOBBY

1ph ~ 230V



MMA



LIFT TIG



Synergic
MMA



Hot Start
Adjustable



Arc Force
Adjustable



Anti-sticking



Voltage
Reduction
Device



Sheet
Thickness
Select



Input
Voltage
Protection



Over-heat
Protection

Standard accessories



Electrode Holder And Cable



Earth Clamp And Cable



Welding Helmet



Brush

Product Parameters

Model	MMA-120D Pro	MMA-140D Pro	MMA-160D Pro	MMA-180D Pro	MMA-200D Pro
Input Voltage (V)	1~ 230	1~ 230	1~ 230	1~ 230	1~ 230
Frequency (Hz)	50/60	50/60	50/60	50/60	50/60
	10-120	10-140	10-160	10-180	10-200
Absorbed Power (KVA)	5.2	6.2	7.3	8.5	9.7
Rated Input Current (A)	22.5	27.1	31.9	37	42.3
Effective Current (A)	12.3	14.8	17.5	20.2	23.2
No load Voltage (V)	65±5	65±5	65±5	65±5	65±5
	30%120A	30%140A	30%160A	30%180A	30%200A
Duty Cycle 40°C 10min	60%80A	60%90A	60%120A	60%130A	60%150A
	100%60A	100%80A	100%100A	100%110A	100%120A
Efficiency (%)	80	80	80	80	80
Power factor	0.72	0.72	0.72	0.72	0.72
Insulation Class	F	F	F	F	F
Protection Class	IP21S	IP21S	IP21S	IP21S	IP21S
Electrode Diameter (mm)	1.6-3.2	1.6-3.2	1.6-4.0	1.6-5.0	1.6-5.0
Gross Weight (kg)	4.3	4.5	5.2	5.8	6.4
Product Dimensions (mm)	289x120x192	289x120x192	289x120x192	289x120x192	289x120x192
Packaging Dimensions (mm)	350x160x285	350x160x285	350x160x285	350x160x285	350x160x285

MMA PLUS

HOBBY
1ph ~ 230V

MMA

**Hot Start
Built-in**

**Arc Force
Built-in**

Anti-sticking

**Input
Voltage
Protection**

**Over-heat
Protection**

IGBT

**Fan
Cooling**

- Small size light weight,high quality and energy-saving.
- Good arc-starting and arc force,stable arc and little spatter.
- High welding quality,deep penetration.
- Auto protection of over-voltage and over-current.
- It can balance automatically when voltage is fluctuation.
- Suitable for welding all kinds of basic welding rod.

Standard accessories


Electrode Holder And Cable

Each Clamp And Cable

Welding Helmet

Brush

LxWxH:289x120x192mm

LxWxH:312x130x212mm

LxWxH:347x150x232mm

Product Parameters

Model	MMA-120Plus	MMA-140Plus	MMA-160Plus	MMA-180Plus	MMA-200Plus
Input Voltage (V)	1~ 230	1~ 230	1~ 230	1~ 230	1~ 230
Frequency (Hz)	50/60	50/60	50/60	50/60	50/60
Output Current Range (A)	10-120	10-140	10-160	10-180	10-200
Absorbed Power (KVA)	5.2	6.2	7.3	8.5	9.7
Rated Input Current (A)	22.5	27.1	31.9	37	42.3
Effective Current (A)	12.3	14.8	17.5	20.2	23.2
No load Voltage (V)	65±5	65±5	65±5	65±5	65±5
	30%120A	30%140A	30%160A	30%180A	30%200A
Duty Cycle 40°C 10min	60%80A	60%90A	60%120A	60%130A	60%150A
	100%60A	100%80A	100%100A	100%110A	100%120A
Efficiency (%)	80	80	80	80	80
Power factor	0.72	0.72	0.72	0.72	0.72
Insulation Class	F	F	F	F	F
Protection Class	IP21S	IP21S	IP21S	IP21S	IP21S
Electrode Diameter (mm)	1.6-3.2	1.6-3.2	1.6-4.0	1.6-5.0	1.6-5.0
Gross Weight (kg)	4.3	4.5	5.2	5.8	6.4
Product Dimensions (mm)	289x120x192	289x120x192	289x120x192	289x120x192	289x120x192
Packaging Dimensions (mm)	350x160x285	350x160x285	350x160x285	350x160x285	350x160x285

SMAW MMA INVERTER · 1~



MMA L

PROFI

1ph ~ 230V



MMA



LIFT TIG



Synergic
MMA



Hot Start
Adjustable



Arc Force
Adjustable



Anti-sticking



Voltage
Reduction
Device



Sheet
Thickness
Select



Input
Voltage
Protection



Over-heat
Protection

Standard accessories



Electrode Holder 1.8m



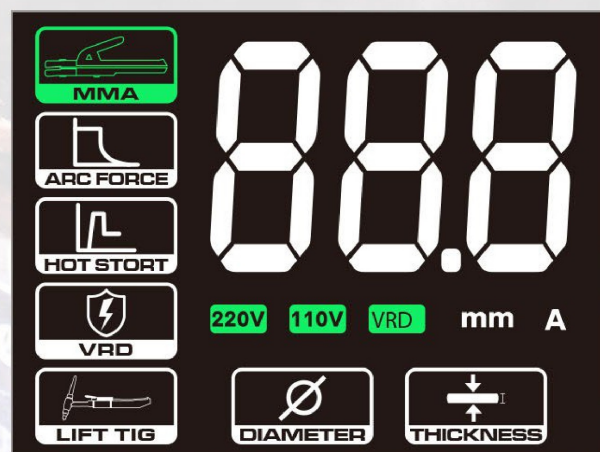
Ground Clamp 1.2m



Welding Helmet



Brush



Product Parameters

Model	MMA-120L	MMA-140L	MMA-160L	MMA-180L	MMA-200L
Input Voltage (V)	1~ 230	1~ 230	1~ 230	1~ 230	1~ 230
Frequency (Hz)	50/60	50/60	50/60	50/60	50/60
Output Current Range (A)	10-120	10-140	10-160	10-180	10-200
Absorbed Power (KVA)	5.2	6.2	7.3	8.5	9.7
Rated Input Current (A)	22.5	27.1	31.9	37	42.3
Effective Current (A)	12.3	14.8	17.5	20.2	23.2
No load Voltage (V)	65±5	65±5	65±5	65±5	65±5
	30%120A	30%140A	30%160A	30%180A	30%200A
Duty Cycle 40°C 10min	60%80A	60%90A	60%120A	60%130A	60%150A
	100%60A	100%80A	100%100A	100%110A	100%120A
Efficiency (%)	80	80	80	80	80
Power factor	0.72	0.72	0.72	0.72	0.72
Insulation Class	F	F	F	F	F
Protection Class	IP21S	IP21S	IP21S	IP21S	IP21S
Electrode Diameter (mm)	1.6-3.2	1.6-3.2	1.6-4.0	1.6-5.0	1.6-5.0
Gross Weight (kg)	4.3	4.5	5.1	5.5	6.2
Product Dimensions (mm)	278x128x198	278x128x198	318x128x198	318x128x198	338x128x198
Packaging Dimensions (mm)	338x168x295	338x168x295	378x168x295	378x168x295	408x168x295



MMA L+20V

PROFI

1ph ~ 230V



MMA



LIFT TIG



Synergic
MMA



Hot Start
Adjustable



Arc Force
Adjustable



Anti-sticking



VRD
Voltage
Reduction
Device



Sheet
Thickness
Select



Input
Voltage
Protection



Over-heat
Protection

Standard accessories



Electrode Holder 1.8m



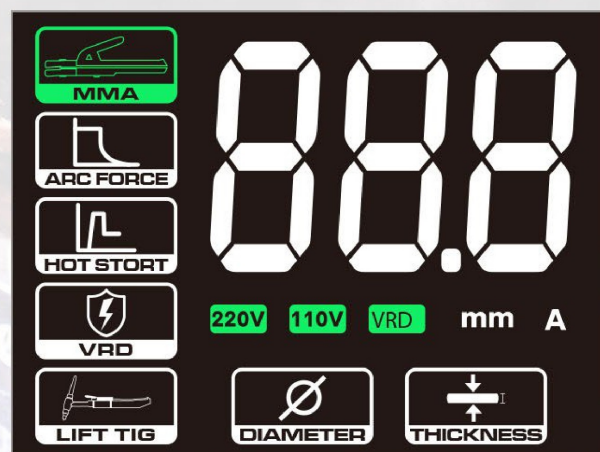
Ground Clamp 1.2m



Welding Helmet



Brush



Product Parameters

Model	MMA-120L	MMA-140L	MMA-160L	MMA-180L	MMA-200L
Input Voltage (V)	1~ 230	1~ 230	1~ 230	1~ 230	1~ 230
Frequency (Hz)	50/60	50/60	50/60	50/60	50/60
Output Current Range (A)	10-120	10-140	10-160	10-180	10-200
Absorbed Power (KVA)	5.2	6.2	7.3	8.5	9.7
Rated Input Current (A)	22.5	27.1	31.9	37	42.3
Effective Current (A)	12.3	14.8	17.5	20.2	23.2
No load Voltage (V)	65±5	65±5	65±5	65±5	65±5
	30%120A	30%140A	30%160A	30%180A	30%200A
Duty Cycle 40°C 10min	60%80A	60%90A	60%120A	60%130A	60%150A
	100%60A	100%80A	100%100A	100%110A	100%120A
Efficiency (%)	80	80	80	80	80
Power factor	0.72	0.72	0.72	0.72	0.72
Insulation Class	F	F	F	F	F
Protection Class	IP21S	IP21S	IP21S	IP21S	IP21S
Electrode Diameter (mm)	1.6-3.2	1.6-3.2	1.6-4.0	1.6-5.0	1.6-5.0
Gross Weight (kg)	4.3	4.5	5.1	5.5	6.2
Product Dimensions (mm)	278x128x198	278x128x198	318x128x198	318x128x198	338x128x198
Packaging Dimensions (mm)	338x168x295	338x168x295	378x168x295	378x168x295	408x168x295



MMA X

HOBBY

1ph ~ 230V



MMA



Hot Start Adjustable



Arc Force Adjustable



Anti-sticking



INPUT VOLTAGE PROTECTION



OVER-HEAT PROTECTION



IGBT



FAN COOLING

- Small size light weight,high quality and energy-saving.
- Good arc-starting and arc force,stable arc and little spatter.
- High welding quality,deep penetration.
- Auto protection of over-voltage and over-current.
- It can balance automatically when voltage is fluctuation.
- Suitable for welding all kinds of basic welding rod.

Standard accessories



Electrode Holder 1.8m



Ground Clamp 1.2m



Welding Helmet



Brush

Product Parameters

Model	MMA-120X	MMA-140X	MMA-160X	MMA-180X	MMA-200X
Input Voltage (V)	1~ 230	1~ 230	1~ 230	1~ 230	1~ 230
Frequency (Hz)	50/60	50/60	50/60	50/60	50/60
Output Current Range (A)	10-120	10-140	10-160	10-180	10-200
Absorbed Power (kVA)	5.2	6.2	7.3	8.5	9.7
Rated Input Current (A)	22.5	27.1	31.9	37	42.3
Effective Current (A)	12.3	14.8	17.5	20.2	23.2
No load Voltage (V)	65±5	65±5	65±5	65±5	65±5
	30%120A	30%140A	30%160A	30%180A	30%200A
Duty Cycle 40°C 10min	60%80A	60%90A	60%120A	60%130A	60%150A
	100%60A	100%80A	100%100A	100%110A	100%120A
Efficiency (%)	80	80	80	80	80
Power factor	0.72	0.72	0.72	0.72	0.72
Insulation Class	F	F	F	F	F
Protection Class	IP21S	IP21S	IP21S	IP21S	IP21S
Electrode Diameter (mm)	1.6-3.2	1.6-3.2	1.6-4.0	1.6-5.0	1.6-5.0
Gross Weight (kg)	4.3	4.5	5.2	5.8	6.4
Product Dimensions (mm)	289x120x192	289x120x192	289x120x192	289x120x192	289x120x192
Packaging Dimensions (mm)	350x160x285	350x160x285	350x160x285	350x160x285	350x160x285



MMA ZS

HOBBY

1ph ~ 230V



MMA



Hot Start Adjustable



Arc Force Adjustable



Anti-sticking



INPUT VOLTAGE PROTECTION



OVER-HEAT PROTECTION



IGBT



FAN COOLING

- Small size light weight, high quality and energy-saving.
- Good arc-starting and arc force, stable arc and little spatter.
- High welding quality, deep penetration.
- Auto protection of over-voltage and over-current.
- It can balance automatically when voltage is fluctuation.
- Suitable for welding all kinds of basic welding rod.

Standard accessories



Electrode Holder 1.8m



Ground Clamp 1.2m



Welding Helmet



Brush

Product Parameters

Model	MMA-120ZS	MMA-140ZS	MMA-160ZS	MMA-180ZS
Input Voltage (V)	1~ 230	1~ 230	1~ 230	1~ 230
Frequency (Hz)	50/60	50/60	50/60	50/60
Output Current Range (A)	10-120	10-140	10-160	10-180
Absorbed Power (kVA)	5.2	6.2	7.3	8.5
Rated Input Current (A)	22.5	27.1	31.9	37
Effective Current (A)	12.3	14.8	17.5	20.2
No load Voltage (V)	65±5	65±5	65±5	65±5
Duty Cycle 40°C 10min	30%120A	30%140A	30%160A	30%180A
	60%80A	60%90A	60%120A	60%130A
	100%60A	100%80A	100%100A	100%110A
Efficiency (%)	80	80	80	80
Power factor	0.72	0.72	0.72	0.72
Insulation Class	F	F	F	F
Protection Class	IP21S	IP21S	IP21S	IP21S
Electrode Diameter (mm)	1.6-3.2	1.6-3.2	1.6-4.0	1.6-5.0
Gross Weight (kg)	4.3	4.5	5.2	5.8
Product Dimensions (mm)	289x120x192	289x120x192	289x120x192	289x120x192
Packaging Dimensions (mm)	350x160x285	350x160x285	350x160x285	350x160x285

MMA RH

EXPERT

1ph ~ 230V



MMA



Hot Start
Built-in



Arc Force
Adjustable



Anti-sticking



INPUT
VOLTAGE
PROTECTION



OVER-HEAT
PROTECTION



IGBT



FAN
COOLING

- Heavy industrial use
- Real output current 250A
- With adjustable Arc force, built-in Hot Start, Arc force, Anti-stick, make welding easier
- This welding machine has 5 PCB boards, each equipped with an automatic detection function. If there is any damage, the fault indicator on the PCB will light up, and you can directly replace the damaged board.

Product Parameters

Model	MMA-250RH
Input Voltage (V)	1~ 230
Frequency (Hz)	50/60
Output Current Range (A)	10-250
Absorbed Power (KVA)	13
Rated Input Current (A)	56.6
Effective Current (A)	56.6
No load Voltage (V)	65±5
	80%200A
Duty Cycle 40°C 10min	90%180A
	100%160A
Efficiency (%)	80
Power factor	0.72
Insulation Class	F
Protection Class	IP21S
Electrode Diameter (mm)	1.6-5.0
Gross Weight (kg)	7.8
Product Dimensions (mm)	365x150x222
Packaging Dimensions (mm)	425x190x320

Standard accessories



Electrode Holder 3m



Ground Clamp 2m



Welding Helmet



Brush

MMA PULSE

EXPERT

1ph ~ 230V



MMA
DC



TIG
LIFT



PULSE



CELLULOSIC
RUTILE
BASIC



ANTI
STICK



VOLTAGE
REDUCTION
DEVICE



Arc Force
Adjustable



Hot Start
Adjustable



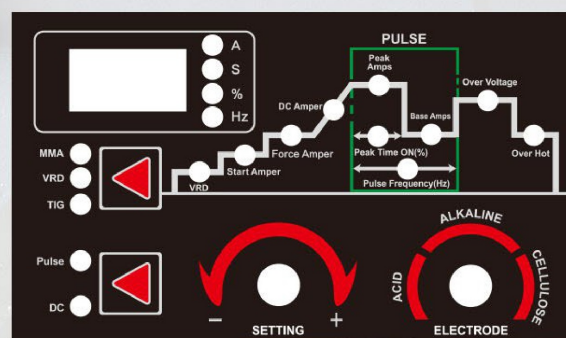
IGBT



INPUT
VOLTAGE
PROTECTION



OVER-HEAT
PROTECTION



- With Pulse functions make ensure welding great performance
- Suitable for E6013, E7018, E7048 E7010 E6010
- With Hot Start, Arc force, Anti stick, make welding easier
- VRD
- Multi Protection, over voltage, over current, over heat protection

Product Parameters

Model	MMA-200PULSE
Input Voltage (V)	1~ 230
Frequency (Hz)	50/60
Output Current Range (A)	10-200
Absorbed Power (KVA)	9.7
Rated Input Current (A)	42.3
Effective Current (A)	23.2
No load Voltage (V)	65±5
	50%200A
Duty Cycle 40°C 10min	60%180A
	100%150A
Efficiency (%)	80
Power factor	0.72
Insulation Class	F
Protection Class	IP21S
Electrode Diameter (mm)	1.6-5.0
Gross Weight (kg)	7.8
Product Dimensions (mm)	365x150x222
Packaging Dimensions (mm)	425x190x320

Standard accessories



Electrode Holder 3m



Ground Clamp 2m



Welding Helmet



Brush

MMA DS

HOBBY

1ph ~ 110V/230V



- Dual voltage.
- Good arc-starting and arc force, stable arc and little spatter.
- High welding quality, deep penetration.
- Auto protection of over-voltage and over-current.

Standard accessories



Product Parameters

Model	MMA-120 DS		MMA-160 DS		MMA-200 DS	
	1~ 127	1~ 230	1~ 127	1~ 230	1~ 127	1~ 230
Frequency (Hz)	50/60	50/60	50/60	50/60	50/60	50/60
Output Current Range (A)	10-120	10-120	10-120	10-160	10-130	10-200
Absorbed Power (KVA)	5.2	3.1	7.3	4.6	9.7	6.3
Rated Input Current (A)	22.5	13.4	31.9	19.8	42.3	27.2
Effective Current (A)	14.2	8.5	20.2	12.5	26.7	17.1
No load Voltage (V)	65±5	65±5	65±5	65±5	65±5	65±5
	40%120A	30%120A	40%120A	30%160A	30%130A	30%200A
Duty Cycle 40°C 10min	60%90A	60%90A	60%90A	60%125A	60%100A	60%150A
	100%60A	100%60A	100%60A	100%100A	100%70A	100%120A
Efficiency (%)	80		80		80	
Power factor	0.72		0.72		0.72	
Insulation Class	F		F		F	
Protection Class	IP21S		IP21S		IP21S	
Electrode Diameter (mm)	1.6-5.0		1.6-5.0		1.6-5.0	
Gross Weight (kg)	5.5		6.1		6.6	
Product Dimensions (mm)	316x150x285		316x150x285		316x150x285	
Packaging Dimensions (mm)	360x165x325		360x165x325		360x165x325	



MMA
DC



HOT
START



ARC
FORCE



ANTI
STICK



VOLTAGE
REDUCTION
DEVICE



REMOTE
CONTROL



INPUT
VOLTAGE
PROTECTION



OVER-HEAT
PROTECTION

Standard accessories



Electrode Holder 3m



Ground Clamp 2m



Welding Helmet



Brush

Product Parameters

Model	MMA-250EX	MMA-300EX	MMA-400EX
Input Voltage (V)	3~ 380	3~ 380	3~ 380
Frequency (Hz)	50/60	50/60	50/60
Output Current Range (A)	10-250	10-300	10-400
Absorbed Power (KVA)	9.8	11.9	17.8
Rated Input Current (A)	14.9	18	27
Effective Current (A)	14.9	18	27
No load Voltage (V)	65±5	65±5	65±5
Duty Cycle 40°C 10min	100%250A	100%300A	100%400A
Efficiency (%)	85	85	85
Power factor	0.9	0.9	0.9
Insulation Class	F	F	F
Protection Class	IP21S	IP21S	IP21S
Electrode Diameter (mm)	1.6-6.0	1.6-6.0	1.6-6.0
Gross Weight (kg)	16	18	24
Product Dimensions (mm)	405x200x280	405x200x280	475x252x369
Packaging Dimensions (mm)	455x240x345	455x240x345	515x292x430

MMA ULTRA

HOBBY

1ph ~ 230V



MMA



LIFT TIG



Hot Start
Adjustable



Arc Force
Adjustable



Synergic
MMA



Anti-sticking



Voltage
Reduction
Device



Electrode
Diameter
Selection



Input
Voltage
Protection



Over-heat
Protection



Double
Fan



IGBT

Standard accessories



Electrode Holder 1.8m



Ground Clamp 1.2m



Welding Helmet



Brush

Product Parameters

Model	MMA-160 Ultra	MMA-200 Ultra
Input Voltage (V)	1~ 230	1~ 230
Frequency (Hz)	50/60	50/60
Output Current Range (A)	10-160	10-200
Absorbed Power (kVA)	7.3	9.7
Rated Input Current (A)	31.9	42.3
Effective Current (A)	17.5	23.2
No load Voltage (V)	65±5	65±5
Duty Cycle 40°C 10min	30%160A	30%200A
	60%120A	60%150A
	100%100A	100%120A
Efficiency (%)	80	80
Power factor	0.72	0.72
Insulation Class	F	F
Protection Class	IP21S	IP21S
Electrode Diameter (mm)	1.6-4.0	1.6-5.0
Gross Weight (kg)	5.2	6.4
Product Dimensions (mm)	267x108x165	322x112x178
Packaging Dimensions (mm)	307x148x255	362x152x268

MMA GS ULTRA

HOBBY

1ph ~ 230V/3ph ~ 380V



MMA



LIFT TIG



Hot Start
Adjustable



Arc Force
Adjustable



Synergic
MMA



Anti-sticking



Voltage
Reduction
Device



Electrode
Diameter
Selection

- 5 PCB.
- Good arc-starting and arc force, stable arc and little spatter.
- High welding quality, deep penetration.
- Auto protection of over-voltage and over-current.

Standard accessories



Electrode Holder 2m



Ground Clamp 1.5m



Welding Helmet



Brush

Product Parameters

Model	MMA-160GS Ultra		MMA-180GS Ultra		MMA-200GS Ultra	
	1~ 230	1~ 380	1~ 230	1~ 380	1~ 230	3~ 380
Frequency (Hz)	50/60	50/60	50/60	50/60	50/60	50/60
Output Current Range (A)	10-160	10-160	10-180	10-180	10-200	10-200
Absorbed Power (KVA)	7.3	5.8	8.5	6.8	9.7	7.8
Rated Input Current (A)	31.9	8.1	37	9.4	42.3	10.8
Effective Current (A)	17.5	6.3	20.2	7.3	23.2	8.4
No load Voltage (V)	65±5	65±5	65±5	65±5	65±5	65±5
	30%160A	30%160A	30%180A	30%180A	30%200A	30%200A
Duty Cycle 40°C 10min	60%120A	60%120A	60%130A	60%130A	60%150A	60%150A
	100%100A	100%100A	100%110A	100%110A	100%120A	100%120A
Efficiency (%)	80		80		80	
Power factor	0.72		0.72		0.72	
Insulation Class	F		F		F	
Protection Class	IP21S		IP21S		IP21S	
Electrode Diameter (mm)	1.6-5.0		1.6-5.0		1.6-5.0	
Gross Weight (kg)	5.5		6.1		6.6	
Product Dimensions (mm)	340170x277		340170x277		340170x277	
Packaging Dimensions (mm)	380x190x340		380x190x340		380x190x340	



MIG

GMAW: Gas Metal Arc Welding

MIG: Manual Inert Gas

FCAW: Flux-Cored Arc Welding

MAG: Manual Active Gas

2T/4T/Spot Welding in Welding Machines

2T (Two-Touch Mode)

- **Definition:** Welding starts and stops by pressing and releasing the torch switch.
- **Application:** Suitable for short welds and intermittent welding.
- **Application Examples**

4T (Four-Touch Mode)

- **Definition:** Pressing the torch switch starts welding, releasing it keeps welding. Pressing and releasing again stops welding.
- **Application:** Ideal for long welds and continuous welding, reducing operator fatigue.

Spot Welding

- **Definition:** The machine performs a short weld automatically within a set time.
 - **Application:** Used for thin sheet welding and precise spot welding, such as in automotive manufacturing and sheet metal work.
- These modes can be selected based on specific welding tasks to enhance efficiency and quality.

Application Examples

- **2T Mode:** Suitable for welding short seams on thin metal plates.
- **4T Mode:** Ideal for welding long seams on steel structures or pipes.
- **Spot Welding Mode:** Used in automotive body manufacturing to weld multiple spot welds accurately.

Pre-Gas and Post-Gas in Welding Machines

Pre-Gas (Pre-Flow)

- **Definition:** Gas is delivered before the arc is initiated.
- **Purpose:** To purge the weld area of air and contaminants, ensuring a clean start and better arc stability.

Post-Gas (Post-Flow)

- **Definition:** Gas continues to flow after the arc is extinguished.
- **Purpose:** To protect the molten weld pool and electrode from oxidation as they cool down.

Application Examples

- **Pre-Gas:** Used in TIG welding to prevent contamination at the start of the weld.
- **Post-Gas:** Used in both TIG and MIG welding to ensure the weld and electrode are protected from oxidation after welding.

SYN

A single knob simultaneously adjusts welding current, voltage, and wire feed speed. This reduces setup time and improves production efficiency

MIG FLUX 1KG

HOBBY

1ph ~ 230V



**MIG
FLUX**



**TIG
LIFT**



**MMA
DC**



1KG



**WIRE
0.8/1.0**



SYNERGIC



**Hot Start
Adjustable**



**Arc Force
Adjustable**



**OVER-HEAT
PROTECTION**



**INPUT
VOLTAGE
PROTECTION**

Standard Accessories



MIG Torch 2m



Electrode Holder 1.6m



Ground Clamp 1.4m



Welding Helmet



Brush

Product Parameters

Model	MIG-120 NA			MIG-140 NA		
Input Voltage (V)	1~PHASE 230			1~PHASE 230		
Frequency (Hz)	50/60			50/60		
	MIG	MMA	TIG	MIG	MMA	TIG
Output Current Range (A)	20-120	10-120	10-120	20-140	10-140	10-140
Absorbed Power (KVA)	4.2	5.2	3.1	5.1	6.2	3.8
Rated Input Current (A)	18.1	22.5	13.4	22.2	27	16.5
Effective Current (A)	11.5	14.2	8.5	14	17.1	10.4
No load Voltage (V)	65±5			65±5		
	40%120A			40%140A		
Duty Cycle 40°C 10min	60%90A			60%100A		
	100%60A			100%80A		
Efficiency (%)	80			80		
Power factor	0.72			0.72		
Insulation Class	F			F		
Protection Class	IP21S			IP21S		
Electrode Diameter (mm)	0.6-1.0			0.6-1.0		
Gross Weight (kg)	7.5			7.5		
Product Dimensions (mm)	240x160x210			240x160x210		
Packaging Dimensions (mm)	280x170x260			280x170x260		

MIG FLUX 1KG NL

HOBBY

1ph ~ 230V



**MIG
FLUX**



**TIG
LIFT**



**MMA
DC**



1KG



**WIRE
0.8/1.0**



SYNERGIC



**Hot Start
Adjustable**



**Arc Force
Adjustable**



**OVER-HEAT
PROTECTION**



**INPUT
VOLTAGE
PROTECTION**

Standard Accessories



MIG Torch 2m



Electrode Holder 1.6m



Ground Clamp 1.4m



Welding Helmet



Brush

Product Parameters

Model	MIG-120 NL			MIG-140 NL		
Input Voltage (V)	1~PHASE 230			1~PHASE 230		
Frequency (Hz)	50/60			50/60		
	MIG	MMA	TIG	MIG	MMA	TIG
Output Current Range (A)	20-120	10-120	10-120	20-140	10-140	10-140
Absorbed Power (KVA)	4.2	5.2	3.1	5.1	6.2	3.8
Rated Input Current (A)	18.1	22.5	13.4	22.2	27	16.5
Effective Current (A)	11.5	14.2	8.5	14	17.1	10.4
No load Voltage (V)	65±5			65±5		
	40%120A			40%140A		
Duty Cycle 40°C 10min	60%90A			60%100A		
	100%60A			100%80A		
Efficiency (%)	80			80		
Power factor	0.72			0.72		
Insulation Class	F			F		
Protection Class	IP21S			IP21S		
Electrode Diameter (mm)	0.6-1.0			0.6-1.0		
Gross Weight (kg)	7.5			7.5		
Product Dimensions (mm)	331x158x210			331x158x210		
Packaging Dimensions (mm)	390x200x300			390x200x300		

MIG FLUX 1/5KG

HOBBY

1ph ~ 230V

MIG NI



MIG
FLUX



TIG
LIFT



MMA
DC



1/5KG



WIRE
0.8/1.0



SYNERGIC



Hot Start
Built-in



Arc Force
Built-in



OVER-HEAT
PROTECTION



INPUT
VOLTAGE
PROTECTION

Standard accessories



MIG Torch 2m



Electrode Holder 1.6m



Ground Clamp 1.4m



Welding Helmet



Brush

Product Parameters

Model	MIG-120NI			MIG-140NI		
Input Voltage (V)	1~PHASE 230			1~PHASE 230		
Frequency (Hz)	50/60			50/60		
	MIG	MMA	TIG	MIG	MMA	TIG
Output Current Range (A)	20-120	10-120	10-120	20-140	10-140	10-140
Absorbed Power (KVA)	4.2	5.2	3.1	5.1	6.2	3.8
Rated Input Current (A)	18.1	22.5	13.4	22.2	27	16.5
Effective Current (A)	11.5	14.2	8.5	14	17.1	10.4
No load Voltage (V)	65±5			65±5		
	40%120A			40%140A		
Duty Cycle 40°C 10min	60%90A			60%100A		
	100%60A			100%80A		
Efficiency (%)	80			80		
Power factor	0.72			0.72		
Insulation Class	F			F		
Protection Class	IP21S			IP21S		
Electrode Diameter (mm)	0.6-1.0			0.6-1.0		
Gross Weight (kg)	7.4			7.8		
Product Dimensions (mm)	380x170x240			380x170x240		
Packaging Dimensions (mm)	420x180x300			420x180x300		

MIG FLUX 1/5KG

HOBBY

1ph ~ 230V

MIG NE



MIG
FLUX



TIG
LIFT



MMA
DC



1/5KG



WIRE
0.8/1.0



SYNERGIC



Hot Start
Adjustable



Arc Force
Adjustable



OVER-HEAT
PROTECTION



INPUT
VOLTAGE
PROTECTION

Standard accessories



MIG Torch 2m



Electrode Holder 1.6m



Ground Clamp 1.4m



Welding Helmet



Brush

Product Parameters

Model	MIG-120NE			MIG-140NE		
Input Voltage (V)	1~PHASE 230			1~PHASE 230		
Frequency (Hz)	50/60			50/60		
	MIG	MMA	TIG	MIG	MMA	TIG
Output Current Range (A)	20-120	10-120	10-120	20-140	10-140	10-140
Absorbed Power (KVA)	4.2	5.2	3.1	5.1	6.2	3.8
Rated Input Current (A)	18.1	22.5	13.4	22.2	27	16.5
Effective Current (A)	11.5	14.2	8.5	14	17.1	10.4
No load Voltage (V)	65±5			65±5		
	40%120A			40%140A		
Duty Cycle 40°C 10min	60%90A			60%100A		
	100%60A			100%80A		
Efficiency (%)	80			80		
Power factor	0.72			0.72		
Insulation Class	F			F		
Protection Class	IP21S			IP21S		
Electrode Diameter (mm)	0.6-1.0			0.6-1.0		
Gross Weight (kg)	8.2			8.4		
Product Dimensions (mm)	328x158x180			328x158x180		
Packaging Dimensions (mm)	390x200x270			390x200x270		

MIG GA 1KG

HOBBY

1ph ~ 230V



MIG
CO₂



MIG
MIX



MIG
FLUX



TIG
LIFT



MMA
DC



1KG



WIRE
0.8/1.0



SYNERGIC



Hot Start
Built-in



Arc Force
Built-in



OVER-HEAT
PROTECTION



INPUT
VOLTAGE
PROTECTION



Standard Accessories

MIG Torch 2m



Electrode Holder 1.6m



Ground Clamp 1.4m



Welding Helmet



Brush

Product Parameters

Model	MIG-120 GA			MIG-140 GA		
Input Voltage (V)	1~PHASE 230			1~PHASE 230		
Frequency (Hz)	50/60			50/60		
	MIG	MMA	TIG	MIG	MMA	TIG
Output Current Range (A)	20-120	10-120	10-120	20-140	10-140	10-140
Absorbed Power (KVA)	4.2	5.2	3.1	5.1	6.2	3.8
Rated Input Current (A)	18.1	22.5	13.4	22.2	27	16.5
Effective Current (A)	11.5	14.2	8.5	14	17.1	10.4
No load Voltage (V)	65±5			65±5		
	40%120A			40%140A		
Duty Cycle 40°C 10min	60%90A			60%100A		
	100%60A			100%80A		
Efficiency (%)	80			80		
Power factor	0.72			0.72		
Insulation Class	F			F		
Protection Class	IP21S			IP21S		
Electrode Diameter (mm)	0.6-1.0			0.6-1.0		
Gross Weight (kg)	7.5			7.5		
Product Dimensions (mm)	270x169x209			270x169x209		
Packaging Dimensions (mm)	330x230x295			330x230x295		

MIG GW 1/5KG

HOBBY

1ph ~ 230V



MIG
CO₂



MIG
MIX



MIG
FLUX



TIG
LIFT



MMA
DC



1KG



WIRE
0.8/1.0



SYNERGIC



Hot Start
Built-in



Arc Force
Built-in



OVER-HEAT
PROTECTION



INPUT
VOLTAGE
PROTECTION

Standard Accessories

MIG Torch 2m



Electrode Holder 1.6m



Ground Clamp 1.4m



Welding Helmet

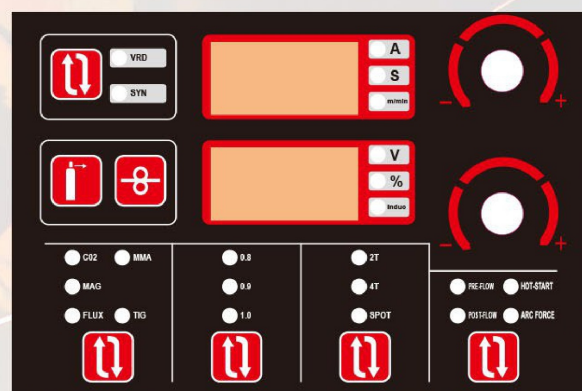


Brush

Product Parameters

Model	MIG-120 GW			MIG-140 GW		
Input Voltage (V)	1~PHASE 230			1~PHASE 230		
Frequency (Hz)	50/60			50/60		
	MIG	MMA	TIG	MIG	MMA	TIG
Output Current Range (A)	20-120	10-120	10-120	20-140	10-140	10-140
Absorbed Power (KVA)	4.2	5.2	3.1	5.1	6.2	3.8
Rated Input Current (A)	18.1	22.5	13.4	22.2	27	16.5
Effective Current (A)	11.5	14.2	8.5	14	17.1	10.4
No load Voltage (V)	65±5			65±5		
	40%120A			40%140A		
Duty Cycle 40°C 10min	60%90A			60%100A		
	100%60A			100%80A		
Efficiency (%)	80			80		
Power factor	0.72			0.72		
Insulation Class	F			F		
Protection Class	IP21S			IP21S		
Electrode Diameter (mm)	0.6-1.0			0.6-1.0		
Gross Weight (kg)	7.5			7.5		
Product Dimensions (mm)	270x169x209			270x169x209		
Packaging Dimensions (mm)	330x230x295			330x230x295		

PROFI



Standard Accessories



MIG Torch 2.8m



Electrode Holder 1.6m



Ground Clamp 1.4m



Welding Helmet



Brush

Product Parameters

Model	MIG-160 PRO			MIG-200 PRO		
Input Voltage (V)	1~PHASE 230			1~PHASE 230		
Frequency (Hz)	50/60			50/60		
	MIG	MMA	TIG	MIG	MMA	TIG
Output Current Range (A)	20-160	10-160	10-160	20-200	10-200	10-200
Absorbed Power (kVA)	6.1	7.3	4.6	8.3	9.7	6.3
Rated Input Current (A)	26.6	31.9	19.8	36.2	42.3	27.2
Effective Current (A)	16.8	20.2	12.5	22.9	26.7	17.1
No load Voltage (V)	65±5			65±5		
	40%160A			40%200A		
Duty Cycle 40°C 10min	60%130A			60%160A		
	100%90A			100%120A		
Efficiency (%)	80			80		
Power factor	0.72			0.72		
Insulation Class	F			F		
Protection Class	IP21S			IP21S		
Electrode Diameter (mm)	0.6-1.0			0.6-1.0		
Gross Weight (kg)	13			14		
Product Dimensions (mm)	310x166x209			310x166x209		
Packaging Dimensions (mm)	350x280x240			350x280x240		

MIG 280 PRO

PROFI

3ph ~ 400V



**MIG
FLUX**



**MIG
CO₂ / MIX**



MMA



GOUGE



15/20KG



**Wire
1.0/1.2/1.6**



**GAS
Check**



**Wire
Check**



2T/4T



**Arc Force
Adjustable**

- Lightweight & Integrated:
- High Power Output
- Easy Operation
- Durable & Rugged

Product Parameters

Model	MIG-280 PRO		
Input Voltage (V)	3~PHASE 400		
Frequency (Hz)	50/60		
	MIG	MMA	TIG
Output Current Range (A)	30-280	10-280	10-280
Absorbed Power (kVA)	15.7	10.8	13.2
Rated Input Current (A)	22.7	15.6	19
Effective Current (A)	17.6	14.7	124.7
No load Voltage (V)	75±5		
	40%280A		
Duty Cycle 40°C 10min	60%250A		
	100%220A		
Efficiency (%)	90		
Power factor	0.72		
Insulation Class	F		
Protection Class	IP21S		
Electrode Diameter (mm)	0.6-1.2		
Gross Weight (kg)	30		
Product Dimensions (mm)	700x270x490		
Packaging Dimensions (mm)	350x280x240		

Standard accessories



Electrode Holder And Cable



Each Clamp And Cable



MIG torch



Welding Helmet

MIG 350/500 PRO

PROFI

3ph ~ 400V



**MIG
FLUX**



**MIG
CO₂ / MIX**



MMA



GOUGE



5KG



**Wire
1.0/1.2/1.6**



**GAS
Check**



**Wire
Check**



2T/4T



**Arc Force
Adjustable**

- Strong output, stable weld
- Split design, easy move
- Heavy load, long durability
- Wide material compatibility

Standard Accessories



MIG Torch



Electrode Holder and Cable



Ground Clamp and Cable

Product Parameters

Model	MIG-350 PRO			MIG-500 PRO		
Input Voltage (V)	3~PHASE 400			3~PHASE 400		
Frequency (Hz)	50/60			50/60		
	MIG	MMA	TIG	MIG	MMA	TIG
Output Current Range (A)	30-350	10-350	10-350	30-500	10-500	10-500
Absorbed Power (kVA)	15.7	16.6	13.2	25.4	26.9	26.9
Rated Input Current (A)	22.7	24	19	36.7	38.8	38.8
Effective Current (A)	17.6	14.7	124.7	28.4	30.1	30.1
No load Voltage (V)	75±5			75±5		
	40%350A			40%500A		
Duty Cycle 40°C 10min	60%300A			60%435A		
	100%275A			100%390A		
Efficiency (%)	90			90		
Power factor	0.72			0.72		
Insulation Class	F			F		
Protection Class	IP21S			IP21S		
Electrode Diameter (mm)	0.6-1.2			0.6-1.6		
Gross Weight (kg)	30			30		
Product Dimensions (mm)	700x270x490			700x270x490		
Packaging Dimensions (mm)	350x280x240			350x280x240		

MIG 200/300 ULTRA

PROFI

3ph ~ 400V



**MIG
FLUX**



**MIG
CO₂**



**MIG
MIX**



**TIG
LIFT**



**MMA
DC**



**1KG
5KG**



**WIRE
0.8/0.9/1.0**



SYN



2T/4T



**WIRE
DETECTION**



PRE-FLOW



POST-FLOW

Standard Accessories



MIG Torch



Electrode Holder and Cable



Ground Clamp and Cable

Product Parameters

Model	MIG-160 ULTRA			MIG-200 ULTRA		
Input Voltage (V)	1~PHASE 230			1~PHASE 230		
Frequency (Hz)	50/60			50/60		
	MIG	MMA	TIG	MIG	MMA	TIG
Output Current Range (A)	20-160	10-160	10-160	20-200	10-200	10-200
Absorbed Power (kVA)	6.1	7.3	4.6	8.3	9.7	6.3
Rated Input Current (A)	26.6	31.9	19.8	36.2	42.3	27.2
Effective Current (A)	16.8	20.2	12.5	22.9	26.7	17.1
No load Voltage (V)	65±5			75±5		
	40%160A			40%500A		
Duty Cycle 40°C 10min	60%130A			60%435A		
	100%90A			100%390A		
Efficiency (%)	80			80		
Power factor	0.72			0.72		
Insulation Class	F			F		
Protection Class	IP21S			IP21S		
Electrode Diameter (mm)	0.6-1.0			0.6-1.0		
Gross Weight (kg)	13			14		
Product Dimensions (mm)	436x200x332			436x200x332		
Packaging Dimensions (mm)	480x230x400			480x230x400		

MIG 200T ULTRA

PROFI

1ph ~ 230V



**MIG
FLUX**



**MIG
CO₂ / MIX**



MMA



**TIG
LIFT**



**TIG
HF**



**Arc Force
Adjustable**



15/20KG



**Wire
1.0/1.2/1.6**



**GAS
Check**



**Wire
Check**



2T/4T



**OVER-HEAT
PROTECTION**

THREE

- MIG
- MMA
- TIG

Product Parameters

Model	MIG-200T ULTRA		
Input Voltage (V)	1~PHASE 230		
Frequency (Hz)	50/60		
	MIG	MMA	TIG
Output Current Range (A)	20-200	10-200	10-200
Absorbed Power (kVA)	8.3	9.7	6.3
Rated Input Current (A)	36.2	42.3	27.2
Effective Current (A)	22.9	26.7	17.1
No load Voltage (V)	65±5		
	40%200A		
Duty Cycle 40°C 10min	60%160A		
	100%120A		
Efficiency (%)	80		
Power factor	0.72		
Insulation Class	F		
Protection Class	IP21S		
Electrode Diameter (mm)	0.6-1.0		
Gross Weight (kg)	14		
Product Dimensions (mm)	436x200x332		
Packaging Dimensions (mm)	475x230x420		

Standard accessories



Electrode Holder And Cable



Each Clamp And Cable



MIG torch



Welding Helmet

MIG 200T ULTRA

PROFI

1ph ~ 230V



**MIG
FLUX**



**MIG
CO₂ / MIX**



MMA



**TIG
LIFT**



**TIG
HF**



**Arc Force
Adjustable**



15/20KG



**Wire
1.0/1.2/1.6**



**GAS
Check**



**Wire
Check**



2T/4T



**OVER-HEAT
PROTECTION**

FOUR

- MIG
- MMA
- TIG
- CUT

Product Parameters

Model	MIG-200T ULTRA			
Input Voltage (V)	1~PHASE 230			
Frequency (Hz)	50/60			
	MIG	MMA	TIG	CUT
Output Current Range (A)	20-200	10-200	10-200	20-40
Absorbed Power (kVA)	8.3	9.7	6.3	5.1
Rated Input Current (A)	36.2	42.3	27.2	22.7
Effective Current (A)	22.9	26.7	17.1	14.4
No load Voltage (V)	65±5			300±20%
	40%200A			35%40A
Duty Cycle 40°C 10min	60%160A			60%35A
	100%120A			100%30A
Efficiency (%)	80			
Power factor	0.72			
Insulation Class	F			
Protection Class	IP21S			
Electrode Diameter (mm)	0.6-1.0			
Gross Weight (kg)	14			
Product Dimensions (mm)	516x200x332			
Packaging Dimensions (mm)	555x230x420			

Standard accessories



Electrode Holder And Cable



Each Clamp And Cable



MIG torch



Welding Helmet

MIG 280 ULTRA

PROFI

3ph ~ 400V



**MIG
FLUX**



**MIG
CO₂ / MIX**



MMA



GOUGE



15/20KG



**Wire
1.0/1.2/1.6**



**GAS
Check**



**Wire
Check**



2T/4T



**Arc Force
Adjustable**

- Lightweight & Integrated:
- High Power Output
- Easy Operation
- Durable & Rugged

Product Parameters

Model	MIG-280 ULTRA		
Input Voltage (V)	3~PHASE 400		
Frequency (Hz)	50/60		
	MIG	MMA	TIG
Output Current Range (A)	30-280	10-280	10-280
Absorbed Power (kVA)	15.7	10.8	13.2
Rated Input Current (A)	22.7	15.6	19
Effective Current (A)	17.6	14.7	124.7
No load Voltage (V)	75±5		
	40%280A		
Duty Cycle 40°C 10min	60%250A		
	100%220A		
Efficiency (%)	90		
Power factor	0.72		
Insulation Class	F		
Protection Class	IP21S		
Electrode Diameter (mm)	0.6-1.2		
Gross Weight (kg)	30		
Product Dimensions (mm)	520x212x435		
Packaging Dimensions (mm)	560x250x530		

Standard accessories



Electrode Holder And Cable



Each Clamp And Cable



MIG torch



Welding Helmet

MIG 350/500 ULTRA

PROFI

3ph ~ 400V



**MIG
FLUX**



**MIG
CO₂ / MIX**



MMA



GOUGE



5KG



**Wire
1.0/1.2/1.6**



**GAS
Check**



**Wire
Check**



2T/4T



**Arc Force
Adjustable**

- Strong output, stable weld
- Split design, easy move
- Heavy load, long durability
- Wide material compatibility

Standard Accessories



MIG Torch



Electrode Holder and Cable



Ground Clamp and Cable

Product Parameters

Model	MIG-350 ULTRA			MIG-500 ULTRA		
Input Voltage (V)	3~PHASE 400			3~PHASE 400		
Frequency (Hz)	50/60			50/60		
	MIG	MMA	TIG	MIG	MMA	TIG
Output Current Range (A)	30-350	10-350	10-350	30-500	10-500	10-500
Absorbed Power (kVA)	15.7	16.6	13.2	25.4	26.9	26.9
Rated Input Current (A)	22.7	24	19	36.7	38.8	38.8
Effective Current (A)	17.6	14.7	124.7	28.4	30.1	30.1
No load Voltage (V)	75±5			75±5		
	40%350A			40%500A		
Duty Cycle 40°C 10min	60%300A			60%435A		
	100%275A			100%390A		
Efficiency (%)	90			90		
Power factor	0.72			0.72		
Insulation Class	F			F		
Protection Class	IP21S			IP21S		
Electrode Diameter (mm)	0.6-1.2			0.6-1.6		
Gross Weight (kg)	30			30		
Product Dimensions (mm)	700x270x490			700x270x490		
Packaging Dimensions (mm)	350x280x240			350x280x240		



TIG

GTAW: Gas Tungsten Arc Welding
TIG: Tungsten Inert Gas

Tungsten rod diameter(mm)	Welding Current(A)	Gas Flow(L/min)
Φ0.5	5-20A	3-7L
Φ1.0	15-80A	4-8L
Φ1.6	70-150A	6-9L
Φ2.4	150-225A	7-10L
Φ3.2	225-350A	10-15L
Φ4.0	350-500A	12-20L

Tungsten Electrode Type	Suitable for	Characteristics
(Red Tip) Thoriated Tungsten	DC TIG	Easy arc starting, good arc stability, ideal for low current welding.
(Gray Tip) Ceriated Tungsten	DC TIG AC TIG	Less stable arc but performs well in AC welding, suitable for welding aluminum and magnesium alloys.
(Green Tip) Pure Tungsten	AC TIG	Easy arc starting, stable arc, high-temperature resistance, suitable for high current welding.
(Gold Tip) Lanthanated Tungsten	DC TIG AC TIG	Easy arc starting, stable arc, high-temperature resistance, suitable for high current welding.
(Blue Tip) Lanthanated Tungsten	DC TIG AC TIG	Good arc stability, suitable for both AC and DC welding, long-lasting.
(Orange Tip) Ceriated Tungsten	DC TIG AC TIG	Easy arc starting, stable arc, ideal for low current welding.
(Purple Tip) Rare Earth Tungsten	DC TIG AC TIG	Superior overall performance, easy arc starting, stable arc, long-lasting.



TIG
HF



TIG
LIFT



MMA
DC



MCU



2T/4T



IGBT



FAN
COOLING



OVER-HEAT
PROTECTION

Standard accessories



TIG Torch 4.0m



Electrode Holder 2m



Ground Clamp 2m



Welding Helmet



Brush

Product Parameters

Model	TIG-140		TIG-160		TIG-200	
Input Voltage (V)	1~PHASE 230		1~PHASE 230		1~PHASE 230	
Frequency (Hz)	50/60		50/60		50/60	
	TIG	MMA	TIG	MMA	TIG	MMA
Output Current Range (A)	10-140	10-140	10-160	10-160	10-200	10-200
Absorbed Power (KVA)	3.8	6.2	4.6	7.3	6.3	9.7
Rated Input Current (A)	16.5	27	19.8	31.9	27.2	42.3
Effective Current (A)	10.4	17.1	12.5	20.2	17.1	26.7
No load Voltage (V)	65±5		65±5		65±5	
	40%140A		40%160A		40%200A	
Duty Cycle 40°C 10min	60%100A		60%130A		60%160A	
	100%80A		100%90A		100%120A	
Efficiency (%)	80		80		80	
Power factor	0.72		0.72		0.72	
Insulation Class	F		F		F	
Protection Class	IP21S		IP21S		IP21S	
Gross Weight (kg)	7.8		7.8		7.8	
Product Dimensions (mm)	371x150x232		371x150x232		371x150x232	
Packaging Dimensions (mm)	410x160x350		410x160x350		410x160x350	



TIG AC/DC

EXPERT

1ph ~ 230V

Standard accessories



TIG Torch 4.0m



Electrode Holder 2m



Ground Clamp 2m



Welding Helmet



Brush

Product Parameters

Model		HTIG-200P MIX AC/DC
Input Voltage (V)		1*220V-240V
Frequency (Hz)		50/60
Power Capacity (KVA)		7.1
No-load Voltage(V)		50
Rated Duty Cycle (%)		60
TIG/MMA Current range(A)		10~200 / 20~180
ARC Force Current range (%)		0-150
Hot Start Range (%)		0-150
DC Pulse MMA	Base Current (%)	10-100
	Pulse Frequency (Hz)	0.2-500
	Duty Cycle (%)	(0.2Hz~10Hz) 1%~99% (11Hz~200Hz) 10%~90% (201Hz~500Hz) 50%
AC MMA Frequency (Hz)		30~100 (Duty 50%)
Sync AC/DC MMA	Electrode Dia (mm)	1.6, 2.0, 2.5, 3.2, 4.0
	Offset Current(A)	±20A
Pulse TIG Frequency (Hz)		0.2~500
Pulse TIG Duty (%)		(0.2Hz~10Hz) 1%~99% (11Hz~200Hz) 10%~90% (201Hz~500Hz) 50%
Sync TIG Offset Current(A)		±35A
Base Current (%)		10-100
Initial / Final Current (%)		10-100
Up / Down Slope Time (S)		0.0~15.0
Pre / Post Flow Time (S)		0.1~15.0 / 0.5~15.0
Spot / Dead (Interval) Time (S)		0.1~15.0 / 0.0~15.0
TIG Tungsten Dia (mm)		1.0, 1.6, 2.0, 2.4, 3.2
AC TIG	Electrode Dia (mm)	30~100
	Offset Current(A)	15%~50%
MIX TIG	Frequency (Hz)	0.5-20
	Ratio	10-90
Efficiency (%)		85
Power Factor		0.93
Protection Class(S)		IP23
Insulation Class		F
Gross Weight (kg)		15
Product Dimensions (mm)		440x162x222
Packaging Dimensions (mm)		480x220x290



TIG HF



TIG LIFT



MMA DC



IGBT



MCU



FAN COOLING



2T/4T



OVER-HEAT PROTECTION



**TIG
HF**



**TIG
LIFT**



**MMA
DC**



2T/4T



**Voltage
Reduction
Device**



**Hot Start
Adjustable**



**Arc Force
Adjustable**



Anti-sticking



MCU



**OVER-HEAT
PROTECTION**

Standard accessories



TIG Torch 4.0m



Electrode Holder 2m



Ground Clamp 2m



Welding Helmet



Brush

- High weld quality
- Low deformation
- Wide metal applicability
- Precise operation

Product Parameters

Model	TIG-140 Ultra		TIG-160 Ultra		TIG-200 Ultra	
Input Voltage (V)	1~PHASE 230		1~PHASE 230		1~PHASE 230	
Frequency (Hz)	50/60		50/60		50/60	
	TIG	MMA	TIG	MMA	TIG	MMA
Output Current Range (A)	10-140	10-140	10-160	10-160	10-200	10-200
Absorbed Power (KVA)	3.8	6.2	4.6	7.3	6.3	9.7
Rated Input Current (A)	16.5	27	19.8	31.9	27.2	42.3
Effective Current (A)	10.4	17.1	12.5	20.2	17.1	26.7
No load Voltage (V)	65±5		65±5		65±5	
	40%140A		40%160A		40%200A	
Duty Cycle 40°C 10min	60%100A		60%130A		60%160A	
	100%80A		100%90A		100%120A	
Efficiency (%)	80		80		80	
Power factor	0.72		0.72		0.72	
Insulation Class	F		F		F	
Protection Class	IP21S		IP21S		IP21S	
Gross Weight (kg)	7.8		7.8		7.8	
Product Dimensions (mm)	346x170x277		346x170x277		346x170x277	
Packaging Dimensions (mm)	386x190x360		386x190x360		386x190x360	

TIG AC/DC ULTRA

EXPERT

1ph ~ 230V



Standard accessories



Product Parameters

Model	TIG-200 ACDC Ultra
Input Voltage (V)	1*220V-240V
Frequency (Hz)	50/60
Power Capacity (KVA)	7.1
No-load Voltage(V)	50
Rated Duty Cycle (%)	60
TIG/MMA Current range(A)	10~200 / 20~180
ARC Force Current range (%)	0-150
Hot Start Range (%)	0-150
DC Pulse MMA	Base Current (%)
	10-100
	Pulse Frequency (Hz)
AC MMA Frequency (Hz)	0.2-500
	Duty Cycle (%)
	(0.2Hz~10Hz) 1%~99% (11Hz~200Hz) 10%~90% (201Hz~500Hz) 50%
Sync AC/DC	30~100 (Duty 50%)
MMA	Electrode Dia (mm)
	1.6, 2.0, 2.5, 3.2, 4.0
Pulse TIG Frequency (Hz)	Offset Current(A)
Pulse TIG Duty (%)	±20A
Sync TIG Offset Current(A)	0.2~500
Base Current (%)	(0.2Hz~10Hz) 1%~99% (11Hz~200Hz) 10%~90% (201Hz~500Hz) 50%
Initial / Final Current (%)	±35A
Up / Down Slope Time (S)	10-100
Pre / Post Flow Time (S)	10-100
Spot / Dead (Interval) Time (S)	0.0~15.0
TIG Tungsten Dia (mm)	0.1~15.0 / 0.5~15.0
AC TIG	Electrode Dia (mm)
	1.0, 1.6, 2.0, 2.4, 3.2
MIX TIG	Offset Current(A)
	15%~50%
Efficiency (%)	Frequency (Hz)
Power Factor	0.5-20
Protection Class(S)	Ratio
Insulation Class	10-90
Gross Weight (kg)	85
Product Dimensions (mm)	0.93
Packaging Dimensions (mm)	IP23
	F
	15
	440x162x222
	480x220x290



**TIG
HF**



**TIG
LIFT**



**MMA
DC**



IGBT



MCU



**FAN
COOLING**



2T/4T



**OVER-HEAT
PROTECTION**