

SMAW MMA Series



1
Phase

3
Phase

50/60
Hz

DC

CC

VRD

Duty Cycle
60%



ARC-230



ARC-300



ARC-400

Functions

Manual Metal ARC Welding &
Lifting ARC Striking TIG

Application Industry

Domestic Fabrication
Agro Industries Fabrication
Industrial Maintenance
Automobile Workshop
Stainless Steel Fabrication



Optional Accessories



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SMAW MMA Series



Features :-

- ❖ Compact Size, Lightweight & Power Saving
- ❖ Stepless Adjustment of Current in a wide range.
- ❖ Digital Display for Accurate Parameter Preset with Single potentiometer control.
- ❖ Suitable for Mild Steel & Stainless Steel etc.
- ❖ Enhanced and efficient Soft Switching Inverter Components.
- ❖ Latest Inverter Based Technology.
- ❖ Built in VRD (Voltage Reducing Device) on/off.
- ❖ Over Temperature Tripping.
- ❖ Output Short-Circuit protection.

TECHNICAL SPECIFICATIONS:

PARAMETERS	MACHINE MODELS		
	ARC-230	ARC-300	ARC-400
Input Voltage (V)	1Ph. 220V \pm 10%	1Ph. 220V \pm 10%	3Ph. 415V \pm 10%
Frequency (Hz)	50Hz	50Hz	50Hz
Rated Input Current (A)	41 A	55 A	18 A
Power (KVA)	9.0 KVA	12.0 KVA	13 KVA
No Load Voltage (V)	65 V DC	65 V DC	68 V DC
Output Current Range (A)	30-200 A DC	30-250 A DC	10-350 A DC
Rated Output Voltage (V)	28 V DC	29.6 V DC	32.8 V DC
Duty Cycle @40°C (%)	60%	60%	60%
No Load Loss (W)	20 W	20 W	60 W
Efficiency (%)	83%	83%	89%
Power Factor (PF)	0.8	0.8	0.95
Electrode Size (mm)	ø 1.6mm-3.15 mm	ø 1.6mm-3.15 mm	ø 1.6mm-4mm
Insulation Grade	F Class	F Class	FClass
Protection Class	IP21S	IP21S	IP21S
Nett. Weight Power Source (Kg.)	5.2 K.g	7.8 K.g	13.4 K.g
Dimensions (mm)	335x156x310	375x210x360	440x220x400

SMAW MMA HD Series



3
Phase

50/60
Hz

EMC

DC

CC

VRD

Duty Cycle
60%



ARC-400HD



ARC-500 HD



ARC-630 HD

Functions

Manual Metal ARC Welding,
Lifting ARC Striking TIG
Carbon ARC Gouging.

Application Industry

Heavy Industrial Fabrication
Oil & Gas Industries Fabrication
Industrial Maintenance
Automobile Industries
Pipe Line Welding
Stainless Steel Fabrication
Process Industries
Cement Industries
Ship Building yard



ARC-1250 HD

Optional Accessories



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SMAW MMA HD Series



Features :-

- ❖ Compact Size, Lightweight & Power Saving
- ❖ Strong Current Output & Industrial Welding and Gouging Performance
- ❖ Stepless Adjustment of Current in a wide range.
- ❖ Digital Display for Accurate Parameter Preset with Single potentiometer control.
- ❖ Suitable for Mild Steel, Alloy Steel & Stainless Steel etc.
- ❖ Enhanced and efficient Soft Switching Inverter Components.
- ❖ Machine use for all welding positions.
- ❖ Machines can use for Scratch TIG function.
- ❖ Built in VRD (Voltage Reducing Device) on/off.
- ❖ Over Temperature Tripping.
- ❖ Output Short-Circuit protection.
- ❖ EMC protection built in input & output circuit.

TECHNICAL SPECIFICATIONS:

PARAMETERS	MACHINE MODELS			
	ARC-400 HD	ARC-500 HD	ARC-630 HD	ARC-1250 HD
Input Voltage (V)	3Ph. 415V \pm 10%	3Ph. 415V \pm 10%	3Ph. 415V \pm 10%	3Ph. 415V \pm 10%
Frequency (Hz)	50Hz	50Hz	50Hz	50Hz
Rated Input Current (A)	24 A	32 A	58 A	83 A
Power (KVA)	17 KVA	23 KVA	42 KVA	60 KVA
No Load Voltage (V)	78 V DC	84 V DC	84 V DC	85 V DC
Output Current Range (A)	10-400 A DC	10-500 A DC	10-600 A DC	50-1200 A DC
Rated Output Voltage (V)	34.4 V DC	39.2 V DC	42 V DC	44 V DC
Duty Cycle @40°C (%)	60%	60%	100%	100%
No Load Loss (W)	80 W	80 W	100 W	240 W
Efficiency (%)	85%	85%	85%	85%
Power Factor (PF)	0.95	0.95	0.95	0.95
Electrode Size (mm)	ø 1.6mm-5mm	ø 2.4mm-6mm	ø 2.4mm-6mm	ø 2.4mm-11mm
Insulation Grade	FClass	FClass	FClass	FClass
Protection Class	IP21S	IP21S	IP21S	IP21S
Nett. Weight Power Source (Kg.)	21.4 K.g	25.1 K.g	41.5 K.g	84.4 K.g
Dimensions (mm)	535x260x475	605x283x522	650x315x670	676x360x955

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GMAW MIG Series



3
Phase

50/60
Hz

EMC

DC

CC/CV

Duty Cycle
100%



MIG-300HD CC/CV



MIG-400HD CC/CV



MIG-500HD CC/CV



MIG-630HD CC/CV

○ Functions

General MIG/MAG Welding
Manual Metal ARC Welding,
Lifting ARC Striking TIG

○ Application Industry

Heavy Industrial Fabrication
Oil & Gas Industries Fabrication
Industrial Maintenance
Automobile Industries
Railways heavy Fabrication
PEB Industries
Stainless Steel Fabrication
Process Industries
Cement Industries
Ship Building yard
Power generation industries

Accessories ○



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GMAW MIG Series



Features :-

- ❖ Compact Size, Lightweight & Power Saving.
- ❖ Trigger Mode 2 Step & 4 Step
- ❖ Strong Current Output, Superior MIG/MAG & MMA Welding process.
- ❖ Stepless Adjustment of Current & Voltage in a wide range.
- ❖ Digital Display for Accurate Parameter Preset.
- ❖ Suitable for Mild Steel, Alloy Steel & Stainless Steel etc.
- ❖ Enhanced and efficient Soft Switching Inverter Components.
- ❖ Multipurpose Machine for welding with low Operating Cost.
- ❖ Over Temperature Tripping.
- ❖ Output Short-Circuit protection.
- ❖ EMC protection built in input & output circuit.
- ❖ Under Voltage, Over Voltage & Phase Loss protection.

TECHNICAL SPECIFICATIONS:

PARAMETERS	MACHINE MODELS			
	MIG-300 HD CC/CV	MIG-400 HD CC/CV	MIG-500 HD CC/CV	MIG-630 HD CC/CV
Input Voltage (V)	3Ph. 415± 10%	3Ph. 415± 10%	3Ph. 415± 10%	3Ph. 415± 10%
Frequency (Hz)	50Hz	50Hz	50Hz	50Hz
Rated Input Current (A)	17.8 A	27 A	35 A	52 A
Power (KVA)	11.7 KVA	17.6 KVA	23 KVA	34.2 KVA
No Load Voltage (V)	60 V DC	62 V DC	73 V DC	84 V DC
Output Current Range (A)	40-300 A DC	40-400 A DC	40-500 A DC	40-630 A DC
Rated Output Voltage (V)	29 V DC	34 V DC	39 V DC	44 V DC
Duty Cycle @40°C (%)	70%	100%	100%	100%
No Load Loss (W)	60 W	80 W	80 W	100 W
Efficiency (%)	83%	86%	89%	89%
Power Factor (PF)	0.95	0.95	0.95	0.95
Wire Diameter (mm)	ø 0.8mm-1.00 mm	ø 0.8mm-1.2 mm	ø 1mm-1.6 mm	ø 1mm-1.6 mm
Insulation Grade	F Class	FClass	FClass	FClass
Protection Class	IP21S	IP21S	IP21S	IP21S
Type of Wire Feeder	2 Roll	4 Roll	4 Roll	4 Roll
Wire Feeding Speed	1.5-20 m/min	2.2-21 m/min	2.2-21 m/min	2.2-21 m/min
Nett. Weight Wire Feeder (Kg.)	8.5kg	9.5kg	9kg	9kg
Nett. Weight Power Source (Kg.)	26.2 kg	34 Kg.	40.6 Kg.	50.6 Kg.
Dimensions (mm)	520x295x525	570x315x575	610x325x625	670x375x665

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GTAW TIG Series



1
Phase

3
Phase

50/60
Hz

EMC

DC
HF

CC

Duty Cycle
60%



TIG/MMA-230



TIG/MMA-400 HD



TIG/MMA-500 HD

Functions

TIG High Frequency.
Manual Metal ARC Welding.

Application Industry

Heavy Industrial Fabrication
Oil & Gas Industries Fabrication
Industrial Maintenance
Automobile Industries
Pipe Line Welding
Stainless Steel Fabrication
Process Industries
Cement Industries
Ship Building yard
Stainless Steel Tube Mill.

Accessories



Optional Accessories



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GTAW TIG Series



Features :-

- ❖ Compact Size, Lightweight & Power Saving
- ❖ Trigger Mode 2 Step & 4 Step
- ❖ Strong Current Output, Superior TIG & MMA Welding.
- ❖ Stepless Adjustment of Current in a wide range.
- ❖ Digital Display for Accurate Parameter Preset.
- ❖ Suitable for Mild Steel, Alloy Steel & Stainless Steel etc.
- ❖ Enhanced and efficient Soft Switching Inverter Components.
- ❖ Machine having functions of- Preflow, Postflow, Upslope, Downslope & hotstart.
- ❖ Spot TIG Welding.

TECHNICAL SPECIFICATIONS:

PARAMETERS	MACHINE MODELS		
	TIG/MMA 230	TIG/MMA 400	TIG/MMA 500
Input Voltage (V)	1Ph. 220± 10%	3Ph. 415± 10%	3Ph. 415± 10%
Frequency (Hz)	50Hz	50Hz	50Hz
Rated Input Current (A)	41 A	24 A	33 A
Power (KVA)	9 KVA	17.3 KVA	23.7 KVA
No Load Voltage (V)	65 V DC	80 V DC	80 V DC
Output Current Range (A)	10-200 A DC	20-400 A DC	20-500 A DC
Rated Output Voltage (V)	18 V DC	32 V DC	34 V DC
Duty Cycle @40°C (%)	60%	60%	60%
No Load Loss (W)	20 W	80 W	80 W
Efficiency (%)	83%	83%	83%
Power Factor (PF)	0.8	0.95	0.95
Arcing Way	High Frequency	High Frequency	High Frequency
Insulation Grade	F Class	FClass	FClass
Protection Class	IP21S	IP21S	IP21S
Pre Flow Time (Sec.)	0.1-1.5 Sec.	0.1-1.5 Sec.	0.1-1.5 Sec.
Post Flow Time (Sec.)	0.1-5 Sec.	0.1-5 Sec.	0.1-5 Sec.
Down Slope (Sec.)	0.1-10 Sec.	0.1-10 Sec.	0.1-10 Sec.
Nett. Weight Power Source (Kg.)	6.7 kg.	35 Kg.	40 Kg.
Dimensions (mm)	384x160x300	520x260x360	520x260x360

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GTAW AC/DC TIG Series



3
Phase

50/60
Hz

EMC

AC
HF

DC
HF

CC/CV

Duty Cycle
60%



TIG-400 HD AC/DC

Accessories



Optional Accessories



Functions

DC TIG, AC TIG, PULSE TIG & MMA.

Application Industry

Aluminum Fabrication Industries.
Aluminum Casting Industries.
Industrial Maintenance
Automobile Industries
Railways heavy Fabrication
PEB Industries
Stainless Steel Fabrication
Interior decoration Industries.

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GTAW

AC/DC TIG Series



Features :-

- ❖ Compact Size, Lightweight & Power Saving
- ❖ Trigger Mode 2 Step & 4 Step
- ❖ Strong Current Output, Superior TIG & MMA Welding.
- ❖ Stepless Adjustment of Current in a wide range.
- ❖ Digital Display for Accurate Parameter Preset.
- ❖ Suitable for Aluminium, Stainless Steel, Alloy Steel & Mild Steel etc.
- ❖ Enhanced and efficient Soft Switching Inverter Components.
- ❖ Machine having functions of- Preflow, Postflow, Upslope, Downslope & hotstart.
- ❖ Machine can use in AC/DC PULSE TIG Welding.

TECHNICAL SPECIFICATIONS:

PARAMETERS	MACHINE MODELS
	TIG-400 HD AC/DC
Input Voltage (V)	3Ph. 415 \pm 10%
Frequency (Hz)	50Hz
Rated Input Current (A)	24 A
Power (KVA)	17.3 KVA
No Load Voltage (V)	70 V AC/DC
Output Current Range (A)	30-400 A AC/DC
Rated Output Voltage (V)	32 V AC/DC
Duty Cycle @40°C (%)	60%
No Load Loss (W)	80 W
Efficiency (%)	83%
Power Factor (PF)	0.95
Arcing Way	High Frequency
Insulation Grade	F Class
Protection Class	IP21S
Pre Flow Time (Sec.)	0.1-1.5 Sec.
Post Flow Time (Sec.)	0.1-5 Sec.
Down Slope (Sec.)	0.1-10 Sec.
Nett. Weight Power Source (Kg.)	54kg
Dimensions (mm)	670x375x665

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SAW Series



3
Phase

50/60
Hz

EMC

DC

CC/CV

Duty Cycle
100%



Functions

Submerged ARC welding, Manual ARC welding & Gouging

Application Industry

Heavy Industrial Fabrication, Oil & Gas Industries Fabrication
Industrial Maintenance, Automobile Industries
Railways heavy Fabrication , PEB Industries
Stainless Steel Fabrication, Process Industries
Cement Industries, Ship Building yard
Power generation industries



SAW-1250 HDCC/CV



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SAW Series



Features :-

- ❖ Compact Size, Lightweight & Power Saving
- ❖ Strong Current Output, Superior Welding and Gouging Performance
- ❖ Stepless Adjustment of Current & Voltage in a wide range.
- ❖ Digital Display for Accurate Parameter Preset.
- ❖ Suitable for Mild Steel, Alloy Steel & Stainless Steel etc.
- ❖ Enhanced and efficient Soft Switching Inverter Components.
- ❖ Multipurpose Machine for welding with low Operating Cost.

TECHNICAL SPECIFICATIONS:

PARAMETERS	MACHINE MODELS
	SAW-1250 HD CC/CV
Input Voltage (V)	3Ph. 415 \pm 10%
Frequency (Hz)	50Hz
Rated Input Current (A)	111 A
Power (KVA)	80 KVA
No Load Voltage (V)	92 V DC
Output Current Range (A)	60-1250 A DC
Rated Output Voltage (V)	40 V DC
Duty Cycle @40°C (%)	100%
No Load Loss (W)	250 W
Efficiency (%)	83%
Power Factor (PF)	0.95
Wire Diameter (mm)	ø 2mm-6mm
Insulation Grade	F Class
Protection Class	IP21S
Type of Wire Feeder	4 Roll
Wire Feeding Speed	50-460cm/min
Nett. Weight Tractor (Kg.)	55 kg
Nett. Weight Power Source (Kg.)	103 kg
Dimensions (mm)	520x295x525

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PLASMA LGK Series



3
Phase

50/60
Hz

EMC

DC
HF

CC/CV

Duty Cycle
60%

Duty Cycle
100%



CNC



LGK-63MA



LGK-100MA



POWERCUT-105

Functions

Plasma cutting & Air ARC Gouging.

Application Industry

Heavy Industrial Fabrication
Oil & Gas Industries Fabrication
Industrial Maintenance
Automobile Industries
Railways heavy Fabrication
PEB Industries
Stainless Steel Fabrication
Process Industries
Cement Industries
Ship Building yard
Power generation industries



Accessories



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PLASMA LGK Series



Features :-

- ❖ Compact Size, Lightweight & Power Saving
- ❖ Strong Current Output, Superior Cutting and Gouging Performance
- ❖ Stepless Adjustment of Current in a wide range.
- ❖ Digital Display for Accurate Parameter Preset.
- ❖ Suitable for Ferrous & Non Ferrous Metals etc.
- ❖ Adopting Inverter Soft Switch Technology Cutting Current is Stable.
- ❖ With Fast Cutting Speed & High Efficiency the Machine speed is 2-5 times
- ❖ Faster than the Traditional Machine.
- ❖ Good ARC Rigidity & Cutting Groove.
- ❖ Suitable for Automation, Robot & CNC Cutting.

TECHNICAL SPECIFICATIONS:

PARAMETERS	MACHINE MODELS		
	LGK-63MA	LGK-100MA	POWERCUT-105 For CNC
Input Voltage (V)	3Ph. 415± 10%	3Ph. 415± 10%	3Ph. 415± 10%
Frequency (Hz)	50Hz	50Hz	50Hz
Rated Input Current (A)	13 A	22 A	32.5 A
Power (KVA)	9.3 KVA	15.8 KVA	23.4 KVA
No Load Voltage (V)	265 V DC	300 V DC	348 V DC
Output Current Range (A)	30-63 A DC	30-100 A DC	30-105 A DC
Rated Output Voltage (V)	100 V DC	115 V DC	160 V DC
Duty Cycle @40°C (%)	60%	60%	100%
No Load Loss (W)	60 W	80 W	60 W
Efficiency (%)	93%	89%	94.3%
Power Factor (PF)	0.8	0.85	0.76
Arcing Way	High Frequency	Pilot ARC	Non High Frequency Striking
Insulation Grade	FClass	FClass	FClass
Protection Class	IP21S	IP21S	IP21S
Quality Cutting Thickness	12 mm	25 mm	20 mm
Maximum Cutting Thickness	18 mm	30 mm	40 mm
Air Pressure	0.3-0.5 MPa	0.3-0.6 MPa	0.3-0.5 MPa
Nett. Weight Power Source (Kg.)	25 Kg.	30 Kg.	46 Kg.
Dimensions (mm)	530x280x485	530x280x485	675x315x605

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GMAW PULSE MIG Series



3
Phase

50/60
Hz

DC

EMC

CC/CV

Duty Cycle
60%



✓ Carbon steel



✓ Stainless steel



✓ Aluminum alloy



✓ Copper alloy



✓ Flux-cored Solder Wires

○ Functions

Pulse MIG/MAG, general MIG/MAG, manual metal-arc welding, lifting arc striking TIG and gouging.

○ Application Industry

High speed train, pressure vessel, automobile repacking, high-voltage switch and space division.



PULSE MIG-350 II & 500 II

Accessories ○



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GMAW PULSE MIG Series



Features :-

- ❖ CPU+DSP full digital high-precision control system precisely controls the waveform and realizes the perfect transition of one droplet per pulse, with the stable arc of welding, the lower spatter, good appearance of weld and high welding quality;
- ❖ 100 sets of welding program can be stored to save operation time.
- ❖ The built-in welding expert database includes the precised parameters of welding waveform control, the parameters in the welding process and the arc striking and suppression parameters. It's convenient to adjust parameters and automatically match with the optimal parameters;
- ❖ The full digital CPU control high-precision control system of wire feeding and the two-drive and two-driven full digital control device of the wire feeding with the encoder ensure the stable wire feeding when the load of wire feeding changes or the net voltage fluctuates in the process of welding;
- ❖ The unified/separate adjustment is convenient to meet different using habits;
- ❖ It has four operation modes of two-step, four-step, special four-step and spot welding. In the welding of large specification long welding seams, the four- step or special four-step function reduces the labor strength of welders and improves the quality of welding joint;
- ❖ It rapidly meets the users' needs for special welding process. The full digital control technique can flexibly meet the special needs via modifying and upgrading of the software, without modifying the hardware;
- ❖ Users can store the self-defined parameters of welding process and manage the welding process and provide convenience for the varied welding of the same station through memorizing and using the parameters of the welding process;
- ❖ Protection functions: It includes short-circuit protection, overheating protection, protection of power grid, wire plugging protection and starting protection. The reasons of warning is recognized through the fault code, in order to guarantee the reliability of the welder and the safety of operator.

TECHNICAL SPECIFICATIONS:

PARAMETERS	MACHINE MODELS	
	PULSE MIG-350 II	PULSE MIG-500 II
Input Voltage (V)	3Ph. 415± 10%	3Ph. 415± 10%
Frequency (Hz)	50Hz	50Hz
Rated Input Current (A)	23.8 A	38.8 A
Power (KVA)	17.1 KVA	27.6 KVA
No Load Voltage (V)	85 V DC	85 V DC
Output Current Range (A)	20-350 A DC	40-400 A DC
Output Voltage Range (V)	14-40 V DC	14-50 V DC
Duty Cycle @40°C (%)	60%	60%
No Load Loss (W)	120 W	120 W
Efficiency (%)	90%	90%
Power Factor (PF)	0.95	0.95
Wire Diameter (mm)	ø 0.8mm-1.2 mm	ø 0.8mm-1.6 mm
Insulation Grade	H Class	H Class
Protection Class	IP21S	IP21S
Type of Wire Feeder	4 Roll	4 Roll
Wire Feeding Speed	1.5-21 m/min	2.2-21 m/min
Nett. Weight Wire Feeder (Kg.)	10 kg	10 kg
Nett. Weight Power Source (Kg.)	52 kg	60 Kg.
Dimensions (mm)	600x320x520	600x320x520

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