YOUR WELDING PARTNER



SHOPPING GUIDE





INTRODUCTION

TOSHWELD group of companies has been specialising in designing and distribution of inverter welding machines.

To satisfy the needs of customer and to meet different welding requirements, we have picked and designed our range of products as:

- ARC Welding Machines
- TIG/ARC Welding Machines
- AC/DC Square Wave (Pulse) Welding Machines
- MIG/MAG Welding Machines
- PLASMA CUTTING Machines
- SAW Welding Machines

To meet our motto "Satisfying Customers by supplying value to them", we adopt modernized management ways to make sure that our distribution network provides a timely delivery of products and our service network provides a timely and quality after sales service to customers.



A Satisfied Customer is our best brand Ambassador

SHOPPING GUIDE

Product Range

Working Connection Guide

Features

Parameters

Product Purchase Guide













Inverter Welding System

An Inverter welder is a relatively new and innovative type of welder. Inverter works on high power semiconductors such as the MOSFET (Metal - Oxide Semi - Conductor Field Effect Transistor) & IGBT (Insulated gate bipolar transistor). They build a switched - mode power supply capable of coping with the high loads of arc welding. They generally first rectify the utility AC power to DC, and then they switch (invert) the DC power into a step down transformer to produce the desired welding voltage or current. Inverters are manufactured from sophisticated components and circuits. It drastically reduces the bulk of the step down transformer. The inverter circuitry can also provide features such as power control and overload protection. The high frequency inverter based welding machines are typically very efficient and provide better control of variable functional parameters.

Inverters has host of advantages when compared, inverter welder is small and on a way portable, besides they consume less power, which means that there will be saving in total energy cost (inverter technology saves around 40% - 55% Power) additionally, an inverter welder will better accept the impure power from generator than conventional welder and this can result in faster jobs and better welds, again as inverter output power is electronically regulated you have a wide power adjustment range from nil 100% enabling you to fine tune them to your specific needs. It is here that inverter welder is certainly a milestone in the advancement of welding technology.











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ARC WELDER (IGBT Series) ARC 200 Nano / ARC 200G / ARC 200L / ARC 250GT



FEATURES

- Advance IGBT Technology with Easy ARC Starting
- Excellent ARC stability with low spatter
- OverVoltage, Over Current, Over Heat auto protection function
- Reliable with High Efficiency and High Energy Savings









ARC 200 Nano

ARC 200G

ARC 200L

ARC 250GT

Parameter				
Model Parameter	ARC 200 Nano 1Phase IGBT	ARC 200G 1 Phase IGBT	ARC 200L 1&2 Phase IGBT	ARC 250GT 1 Phase IGBT
Input Voltage (V)	AC230V±15%	AC230V±15%	AC230V/415V±15%	AC230V±15%
Input Power Capacity (KVA)	6	6	6	7.4
No-Load Voltage (V)	56	58	58	58
Output Current Range (A)	10-200	10-200	10-200	10-250
Rate Input Current (A)	32.8	43.6	43.6	43.6
Power Factor	0.73	0.73	0.73	0.73
Duty Cycle (%)	60	60	60	60
Insulation Grade	F	F	F	F
Net Weight (KG)	4.5	6	6	8
Dimension (Inch)	12.5 X 5 X 9	15.5 X 6 X 11.5	15.5 X 6 X 11.5	16 X 6 X 12
Plate Thickness (MM)	2.0 - 6.0	2.0 - 6.0	2.0 - 6.0	2.0 - 8.0
Electrode Size (MM)	2.0 - 3.2	2.0 - 3.2	2.0 - 3.2	2.0 - 3.2

Product Purchase Guide			
Base Material	Plate Thickness (mm)	Electrode Size (mm)	Applicable Model
	2.0 - 6.0	2.0 - 3.2	ARC 200 I
Carbon Steel	2.0 - 6.0	2.0 - 3.2	ARC 200 G
Stainless Steel	2.0 - 6.0	2.0 - 3.2	ARC 200 L
Low -Alloy Steel	2.0 - 8.0	2.0 - 4.0	ARC 250 GT



- Adapted Powerful Mosfet Technology
- Excellent ARC stability with low spatter
- Over Voltage, Over Current, Over Heat auto protection function
- Reliable with High Efficiency and High Energy Savings



ARC 200



ARC 250ST

Parameter			
Model Parameter	ARC 200 1Phase Mosfet	ARC 25 0ST 1Phase Mosfet	
Input Voltage (V)	AC230V±15%	AC230V±15%	
Input Power Capacity (KVA)	6	7.4	
No-Load Voltage (V)	58	58	
Output Current Range (A)	10-200	10-250	
Rate Input Current (A)	43.6	43.6	
Power Factor	0.73	0.73	
Duty Cycle (%)	60	60	
Insulation Grade	F	F	
Net Weight (KG)	8	10	
Dimension (Inch)	15.5 X 6 X 11.5	16 X 6 X 12	
Plate Thickness (MM)	2.0 - 6.0	2.0 - 8.0	
Electrode Size (MM)	2.0 - 3.2	2.0 - 4.0	

Product Purchase Guide				
Base Material	Plate Thickness (mm)	Electrode Size (mm)	Applicable Model	
Carbon Steel	2.0 - 6.0	2.0 - 3.2	ARC 200	
Stainless Steel	2.0 - 8.0	2.0 - 4.0	ARC 250 ST	
Low -Alloy Steel				





- Advance IGBT Technology with Easy ARC Starting
- Excellent ARC stability with low spatter
- Over Voltage, Over Current, Over Heat auto protection function
- Reliable with High Efficiency and High Energy Savings
- ARC Force for Anti Sticking







ARC 270 L

Parameter		
Model Parameter	ARC 270 S 1Phase IGBT	ARC 270 L 1&2 Phase IGBT
Input Voltage (V)	AC230V±15%	AC230V / 415V±15%
Input Power Capacity (KVA)	8.5	8.5
No-Load Voltage (V)	66	60
Output Current Range (A)	10-270	10-270
Rate Input Current (A)	61.9	55.8 / 14.6
Power Factor	0.73	0.73 / 0.93
Duty Cycle (%)	60	60
Insulation Grade	F	F
Net Weight (KG)	7.5	7.5
Dimension (Inch)	15 X 6 X 11.5	15 X 6 X 11.5
Plate Thickness (MM)	2.0 - 10.0	2.0 - 10.0
Electrode Size (MM)	2.0 - 4.0	2.0 - 4.0

Product Purchase Guide				
Base Material	Plate Thickness (mm)	Electrode Size (mm)	Applicable Model	
Carbon Steel	2.0 - 10.0	2.0 - 4.0	ARC 270 S	
Stainless Steel	2.0 - 10.0	2.0 - 4.0	ARC 270 L	
Low -Alloy Steel				



- Adapted Powerful Mosfet Technology
- Excellent ARC stability with low spatter
- Over Voltage, Over Current, Over Heat auto protection function
- Reliable with High Efficiency and High Energy Savings
- ARC Force for Anti Sticking



ARC 300S



ARC 300 L

Parameter		
Model Parameter	ARC 300S 1Phase Mosfet	ARC 300 L 1&2 Phase Mosfet
Input Voltage (V)	AC230V±15%	AC230V / 415V±15%
Input Power Capacity (KVA)	9.4	9.4
No-Load Voltage (V)	66	66
Output Current Range (A)	20-300	20-300
Rate Input Current (A)	14.4	14.4
Power Factor	0.93	0.93
Duty Cycle (%)	60	60
Insulation Grade	F	F
Net Weight (KG)	13.5	13.5
Dimension (Inch)	20 X 8 X 15	20 X 8 X 15
Plate Thickness (MM)	2.0 - 10.0	2.0 - 10.0
Electrode Size (MM)	2.0 - 4.0	2.0 - 4.0

Product Purchase Guide				
Base Material	Plate Thickness (mm)	Electrode Size (mm)	Applicable Model	
Carbon Steel	2.0 - 10.0	2.0 - 4.0	ARC 300 S	
Stainless Steel	2.0 - 10.0	2.0 - 4.0	ARC 300 L	
Low -Alloy Steel				



- Adapted Powerful Mosfet Technology
- Excellent ARC stability with low spatter
- Over Voltage, Over Current, Over Heat auto protection function
- Reliable with High Efficiency and High Energy Savings
- ARC Force for Anti Sticking



ARC 300



ARC 400

Parameter Parame			
Model Parameter	ARC 300 3Phase Mosfet	ARC 400 3 Phase Mosfet	
Input Voltage (V)	AC415V±15%	AC415V±15%	
Input Power Capacity (KVA)	9.4	18.2	
No-Load Voltage (V)	66	68	
Output Current Range (A)	20-300	30-400	
Rate Input Current (A)	14.4	27.7	
Power Factor	0.93	0.93	
Duty Cycle (%)	60	60	
Insulation Grade	F	F	
Net Weight (KG)	13.5	24.5	
Dimension (Inch)	20 X 8 X 15	22.5 X 12 X 20	
Plate Thickness (MM)	2.0 - 10.0	2.0 - 20.0	
Electrode Size (MM)	2.0 - 4.0	2.0 - 4.0	

Product Purchase Guide				
Base Material	Plate Thickness (mm)	Electrode Size (mm)	Applicable Model	
Carbon Steel	2.0 - 10.0	2.0 - 4.0	ARC 300	
Stainless Steel	2.0 - 20.0	2.0 - 4.0	ARC 400	
Low -Alloy Steel				



- Advance IGBT Technology with Easy ARC Starting
- Excellent ARC stability with low spatter
- Over Voltage, Over Current, Over Heat auto protection function
- Reliable with High Efficiency and High Energy Savings
- ARC Force for Anti Sticking
- With VRD Function







ARC 315 L



ARC 315

Parameter			
Model Parameter	ARC 315 S 1Phase IGBT	ARC 315 L 1&2 Phase IGBT	ARC 315 3 Phase IGBT
Input Voltage (V)	AC230V±15%	AC230V/415V±15%	AC415V±15%
Input Power Capacity (KVA)	10.5	10.5	10.5
No-Load Voltage (V)	66	66	66
Output Current Range (A)	30-315	30-315	30-315
Rate Input Current (A)	76.5	55.8 / 18.1	18.1
Power Factor	0.73	0.73 / 0.93	0.93
Duty Cycle (%)	60	60	60
Insulation Grade	F	F	F
Net Weight (KG)	9	9	9
Dimension (Inch)	16.5 X 8 X 13.5	16.5 X 8 X 13.5	16.5 X 8 X 13.5
Plate Thickness (MM)	2.0 - 12.0	2.0 - 12.0	2.0 - 12.0
Electrode Size (MM)	2.0 - 4.0	2.0 - 4.0	2.0 - 4.0

Product Purchase Guide				
Base Material	Plate Thickness (mm)	Electrode Size (mm)	Applicable Model	
Carbon Steel	2.0 - 12.0	2.0 - 4.0	ARC 315 S	
Stainless Steel	2.0 - 12.0	2.0 - 4.0	ARC 315 L	
Low -Alloy Steel	2.0 - 12.0	2.0 - 4.0	ARC 315	



- Advance IGBT Technology with Easy ARC Starting
- Excellent ARC stability with low spatter
- Over Voltage, Over Current, Over Heat auto protection function
- Reliable with High Efficiency and High Energy Savings
- ARC Force for Anti Sticking
- With VRD Function and Remote Option



ARC 400 GLT



ARC 400 GT

Parameter		
Model Parameter	ARC 400 GLT 1 & 2 Phase IGBT	ARC 400 GT 3 Phase IGBT
Input Voltage (V)	AC230V / 415V±15%	AC415V±15%
Input Power Capacity (KVA)	16	16
No-Load Voltage (V)	68	68
Output Current Range (A)	30-400	30-400
Rate Input Current (A)	27.7	27.7
Power Factor	0.93	0.93
Duty Cycle (%)	60	60
Insulation Grade	F	F
Net Weight (KG)	13.5	13.5
Dimension (Inch)	18 X 9 X 15	18 X 9 X 15
Plate Thickness (MM)	2.0 - 16.0	2.0 - 16.0
Electrode Size (MM)	2.0 - 4.0	2.0 - 4.0

Product Purchase Guide				
Base Material	Plate Thickness (mm)	Electrode Size (mm)	Applicable Model	
Carbon Steel	2.0 - 16.0	2.0 - 4.0	ARC 400 GLT	
Stainless Steel	2.0 - 16.0	2.0 - 4.0	ARC 400 GT	
Low -Alloy Steel				



- $\bullet \qquad \mathsf{Advance}\,\mathsf{IGBTTechnology}\,\mathsf{with}\,\mathsf{Easy}\,\mathsf{ARC}\,\mathsf{Starting}$
- Excellent ARC stability with low spatter
- Over Voltage, Over Current, Over Heat auto protection function
- Reliable with High Efficiency and High Energy Savings
- ARC Force for Anti Sticking
- With VRD Function and Remote Option



ARC 400 DON



ARC 400 SUMO

Parameter		
Model Parameter	ARC 400 DON 3 Phase IGBT	ARC 400 SUMO 3 Phase IGBT
Input Voltage (V)	AC415V±15%	AC415V±15%
Input Power Capacity (KVA)	18.2	18
No-Load Voltage (V)	68	68
Output Current Range (A)	30-400	30-400
Rate Input Current (A)	25.3	17
Power Factor	0.93	0.93
Duty Cycle (%)	60	60
Insulation Grade	F	F
Net Weight (KG)	16	22
Dimension (Inch)	20 X 9.5 X 17.5	20.5 X 10.5 X 21.5
Plate Thickness (MM)	2.0 - 20.0	2.0 - 30.0
Electrode Size (MM)	2.0 - 4.0	2.0 - 5.0

Product Purchase Guide				
Base Material	Plate Thickness (mm)	Electrode Size (mm)	Applicable Model	
Carbon Steel	2.0 - 20.0	2.0 - 4.0	ARC 400 DON	
Stainless Steel	2.0 - 30.0	2.0 - 5.0	ARC 400 SUMO	
Low -Alloy Steel				



- Advance IGBT Module Technology with Easy ARC Start
- Excellent ARC stability with low spatter
- Over Voltage, Over Current, Over Heat auto protection function
- Reliable with High Efficiency and High Energy Savings
- ARC Force for Anti Sticking
- With VRD Function and Remote Option
- Increased Duty Cycle Maintaining Stable Welding with 100mtr Cable
- Bigger Models like ARC630IJ are able to perform Carbon Gauging Function









ARC 400 CI

ARC 400 BIJ

ARC 400 IJ

ARC 630 IJ

Parameter				
Model Parameter	ARC 400 CI 3Phase IGBT Module	ARC 400 BIJ 3Phase IGBT Module	ARC 400 IJ 3Phase IGBT Module	ARC 630 IJ 3Phase IGBT Module
Input Voltage (V)	AC415V±15%	AC415V±15%	AC415V±15%	AC415V±15%
Input Power Capacity (KVA)	18.2	18.2	18	36
No-Load Voltage (V)	68	68	68	85
Output Current Range (A)	30-400	30-400	30-400	50-630
Rate Input Current (A)	17	17	17	53.1
Power Factor	0.93	0.93	0.93	0.93
Duty Cycle (%)	60	60	60	60
Insulation Grade	F	F	F	F
Net Weight (KG)	16	18	26	44
Dimension (Inch)	19.5 X 9.5 X 17.5	19.5 X 9.5 X 17.5	21.5 X 11 X 21.5	25.5 X 12 X 25
Plate Thickness (MM)	2.0 - 20.0	2.0 - 25.0	2.0 - 40.0	2.0 - 60.0
Electrode Size (MM)	2.0 - 4.0	2.0 - 5.0	2.0 - 5.0	2.0 - 6.3

Product Purchase Guide			
Base Material	Plate Thickness (mm)	Electrode Size (mm)	Applicable Model
	2.0 - 20.0	2.0 - 4.0	ARC 400 CI
Carbon Steel	2.0 - 25.0	2.0 - 5.0	ARC 400 BIJ
Stainless Steel	2.0 - 40.0	2.0 - 5.0	ARC 400 IJ
Low -Alloy Steel	2.0 - 60.0	2.0 - 6.3	ARC 630 IJ

TIG /ARC WELDER (Mosfet Series)

TIG 200 / TIG 300 S / TIG 300



FEATURES

- $Adapted\,Powerful\,Mosfet\,Technology$
- $High \, Frequency \, ignition \, with \, superior \, performance$
- Over Voltage, Over Current, autoprotection function
- Dual function of TIG and ARC
- $Unique\ output\ Characteristic\ design, Especially\ to\ wire\ filled\ welding\ process$
- $Adaptable\ to\ the\ welding\ application\ on\ Stainless\ Steels, Carbon\ Steels, Copper\ Steels\ and\ other\ metals$







TIG 200

TIG 300 S

TIG 300

Parameter				
Model Parameter	TIG 200 1Phase Mosfet	TIG 300 S 1Phase Mosfet	TIG 300 3Phase Mosfet	
Input Voltage (V)	AC230V±15%	AC230V±15%	AC415V±15%	
Input Power Capacity (KVA)	6/6	6.5/9.4	6.5/9.4	
No-Load Voltage (V)	56	60	60	
Output Current Range (A)	7-200	7-300	7-300	
Rate Input Current (A)	28/43	9.6/14.4	9.6/14.4	
ARC Ignition	HF	HF	HF	
Power Factor	0.73	0.93	0.93	
Duty Cycle (%)	60	60	60	
Insulation Grade	F	F	F	
Net Weight (KG)	9	19	19	
Dimension (Inch)	15.5 X 6 X 12	20 X 8 X 15	20 X 8 X 15	
Plate Thickness (MM)	0.3-5.0 / 1.0-6.0	0.3-8.0 / 2.0-10.0	0.3-8.0 / 2.0-10.0	
Electrode Size (MM)	2.0 - 3.2	2.0 - 4.0	2.0 - 4.0	

Product Purchase Guide				
Base Material	Welding Method	Plate Thickness	(mm)	Applicable Model
		TIG	ARC	
Carbon Steel	ARC / TIG	0.3-5.0	1.0-6.0	TIG 200
Stainless Steel	ARC / TIG	0.3-8.0	2.0-10.0	TIG 300 S
Low -Alloy Steel	ARC / TIG	0.3-8.0	2.0-10.0	TIG 300



- Advanced IGBT Technology with easy start with High Frequency ignition with superior performance
- Over Voltage, Over Current, auto protection function
- Unique output Characteristic design, Especially to wirefilled welding process
- Adaptable to the welding application on Stainless Steels, Carbon Steels, Copper Steels and other metals
- With Up Slope and Down Slope function and 2T-4T function
- Dual function of TIG and ARC











TIG 630 IJ

Parameter			
Model Parameter	TIG/ARC 400 Sumo 3Phase IGBT	TIG / ARC 400 IJ 3Phase IGBT Module	TIG / ARC 630 IJ 3Phase IGBT Module
Input Voltage (V)	AC415V±15%	AC415V±15%	AC415V±15%
Input Power Capacity (KVA)	13.1 / 18.2	13/18	16/36
No-Load Voltage (V)	65	68	85
Output Current Range (A)	7-400	7-400	50-630
Rate Input Current (A)	20/27.7	13.1 / 18.2	16/53
ARC Ignition	HF	HF	HF
Power Factor	0.93	0.93	0.93
Duty Cycle (%)	60	60	60
Insulation Grade	F	F	F
Net Weight (KG)	24	30	44
Dimension (Inch)	20.5 X 10.5 X 21.5	21.5 X 11 X 21.5	25.5 X 12 X 25
Plate Thickness (MM)	0.5-12.0 / 2.0-30.0	0.5-12.0 / 2.0-40.0	0.5-20 / 2.0-60
Electrode Size (MM)	2.0 - 5.0	2.0 - 6.3	2.0 - 6.3

Product Purchase Guide				
Base Material	Welding Method	Plate Thickness	s (mm)	Applicable Model
		TIG	ARC	
Carbon Steel	ARC / TIG	0.5 - 12.0	2.0 - 30.0	TIG 400 Sumo
Stainless Steel	ARC / TIG	0.5 - 12.0	2.0 - 40.0	TIG 400 IJ
Low -Alloy Steel	ARC / TIG	0.5 - 20.0	2.0 - 60.0	TIG 630 IJ



- Pulse TIG function with frequency, Base and Peak Current Adjustable
- Meter to Pre-Set and display welding current
- Over Voltage, Over Current, Over Heat auto protection function
- Adaptable for welding application on Aluminum, Alloy, Stainless Steels and other metals
- With 2T-4T function







TIG 200P AC/DC

Parameter		
Model Parameter	TIG 200 M 1Phase Mosfet	TIG 200P AC/DC 1Phase Mosfet
Input Voltage (V)	AC230V±15%	AC230V±15%
Input Power Capacity (KVA)	6	6
No-Load Voltage (V)	56	44
Output Current Range (A)	10-200	5 -200
Rate Input Current (A)	28	32.5
ARC Ignition	HF	HF
Power Factor	0.73	0.73
Duty Cycle (%)	60	60
Insulation Grade	F	F
Net Weight (KG)	15	28.5
Dimension (Inch)	20 X 8 X 18	19.5 X 13.5 X 14.5
Plate Thickness Aluminum (MM)	-	0.8 - 4.0
Plate Thickness Steel (MM)	0.3 - 4.0	0.3 - 5.0

Product Purchase Guide			
Base Material	Welding Method	Plate Thickness Steel (mm)	Applicable Model
Carbon Steel	DC TIG	0.3 - 4.0	TIG 200 M
Stainless Steel	DC TIG	0.3 - 5.0	TIG 200 P AC/DC
Low -Alloy Steel			
Aluminum	AC TIG	0.8 - 4.0	TIG 200 P AC/DC
Aluminum-Magnesium Alloy			



- Pulse TIG function with frequency, Base and Peak Current Adjustable
- Meter to Pre-Set and display welding current
- Over Voltage, Over Current, Over Heat auto protection function
- Adaptable for welding application on Aluminum, Alloy, Stainless Steels and other metals
- With 2T-4T function
- High Duty Cycle for large scale production line







TIG 500P AC/DC

Parameter		
Model Parameter	TIG 315BP ACDC 3 Phase Mosfet	TIG 500P AC/DC 3 Phase IGBT Module
Input Voltage (V)	AC415V±15%	AC415V±15%
Input Power Capacity (KVA)	8.9	18
No-Load Voltage (V)	60	54
Output Current Range (A)	5-315	10-500
Rate Input Current (A)	13.6	53
ARC Ignition	HF	HF
Power Factor	0.93	0.93
Duty Cycle (%)	60	60
Insulation Grade	F	F
Net Weight (KG)	33	60
Dimension (Inch)	22.5 X 14.5 X 18	27 X 18 X 32
Plate Thickness Aluminum (MM)	0.8 - 12.0	0.8 - 30.0
Plate Thickness Steel (MM)	0.3 - 12.0	0.3 - 30.0

Product Purchase Guide			
Base Material	Welding Method	Plate Thickness Steel (mm)	Applicable Model
Carbon Steel	DC TIG	0.3 - 12.0	TIG 315BP AC/DC
Stainless Steel	DC TIG	0.3 - 30.0	TIG 500P AC/DC
Low -Alloy Steel			
Aluminum	AC TIG	0.8-12.0	TIG 315BP AC/DC
Aluminum-Magnesium Alloy	AC TIG	0.8-30.0	TIG 500P AC/DC



MIG / MAG WELDER (IGBT Series) MIG/ARC 250YS/ MIG/ARC 250Y / MIG/ARC 315F



- Advanced IGBTTechnology with MIG and ARC function
- High Stability to assure smooth finishing
- Adapted with inbuilt wire feeding circuit design
- With 2T-4T function
- Reliable with high efficiency and energy savings upto 80-85%







MIG/ARC 250Y



MIG/ARC 315F

Parameter			
Model Parameter	MIG/ARC 250 YS 1Phase IGBT	MIG/ARC 250 Y 3Phase IGBT	MIG/ARC 315 F 3Phase IGBT
Input Voltage (V)	AC230V±15%	AC415V±15%	AC415V±15%
Input Power Capacity (KVA)	9.7	9.7	11.8
Output Voltage Adjustment (V)	26.5	26.5	29.8
Output Current Range (A)	30-250	30-250	30-315
Wire Feeder Speed (Mtr / Min)	2-24	2-24	2-24
Power Factor	0.73	0.93	0.93
Duty Cycle (%)	60	60	60
Insulation Grade	F	F	F
Net Weight (KG)	21	21	21
Dimension (Inch)	19 X 10 X 17	19 X 10 X 17	20 X 8 X 15
MIG Wire Diameter (MM)	0.6 - 1.0	0.6 - 1.0	0.6 - 1.0

Product Purchase Guide			
Base Material	Welding Method	Wire Diameter (∅) mm	Applicable Model
Carbon Steel	MIG / MAG	0.6 - 1.0	MIG/ARC 250YS
Stainless Steel	MIG / MAG	0.6 - 1.0	MIG/ARC 250Y
Low -Alloy Steel	MIG / MAG	0.6 - 1.0	MIG/ARC 315F



- Adapted powerful mosfet technology with MIG and ARC function
- High Stability to assure smooth finishing
- Adapted with external wire feeding circuit design
- With 2T 4T function
- Reliable with high efficiency and energy savings upto 80-85%







MIG/ARC 250 F

Parameter		
Model Parameter	MIG / ARC 250 FS 1Phase Mosfet	MIG / ARC 250 F 3Phase Mosfet
Input Voltage (V)	AC230V±15%	AC415V±15%
Input Power Capacity (KVA)	8.5	8.5
Output Voltage Adjustment (V)	26.5	26.5
Output Current Range (A)	50 -250	50 -250
Wire Feeder Speed (Mtr / Min)	2.5 - 18	2.5 - 18
Power Factor	0.93	0.93
Duty Cycle (%)	60	60
Insulation Grade	F	F
Net Weight (KG)	21	21
Dimension (Inch)	20 X 8 X 15	20 X 8 X 15
MIG Wire Diameter (MM)	0.6 - 1.0	0.6 - 1.0

Product Purchase Guide			
Base Material	Welding Method	Wire Diameter (∅) mm	Applicable Model
Carbon Steel	MIG / MAG	0.6 - 1.0	MIG /ARC 250 FS
Stainless Steel	MIG / MAG	0.6 - 1.0	MIG /ARC 250 F
Low -Alloy Steel			





MIG / MAG WELDER (IGBT Module Series) MIG/ARC 400 SUMO / MIG/ARC 400 IJ / MIG/ARC 630 IJ



FEATURES

- $Advanced\,IGBT Technology\,with\,MIG\,and\,ARC\,function$
- High Stability to assure smooth finishing
- Adapted with inbuilt wire feeding circuit design
- With 2T-4T function
- Reliable with high efficiency and energy savings upto 80-85%
- High Duty Cycle for large scale production line
- High Welding efficiency







MIG/ARC 400 IJ



MIG/ARC 630 IJ

Parameter			
Model Parameter	MIG/ARC 400 SUMO 3Phase IGRT	MIG/ARC 400 IJ 3Phase IGBT Module	MIG/ARC 630 IJ 3Phase IGBT Module
Input Voltage (V)	AC415V±15%	AC415V±15%	AC415V±15%
Input Power Capacity (KVA)	15	14	35
Output Voltage Adjustment (V)	34	31.5	44
Output Current Range (A)	30-400	50-400	80-630
Wire Feeder Speed (Mtr / Min)	2-24	3-24	3-24
Power Factor	0.93	0.93	0.93
Duty Cycle (%)	60	60	60
Insulation Grade	F	F	F
Net Weight (KG)	32	36	50
Dimension (Inch)	20.5 X 10.5 X 21.5	21.5 X 11 X 21.5	22.5 X 12 X 25
MIG Wire Diameter (MM)	0.8 - 1.2	0.8 - 1.2	0.8 - 1.6

Product Purchase Guide			
Base Material	Welding Method	Wire Diameter (∅) mm	Applicable Model
Carbon Steel	MIG / MAG	0.8 - 1.2	MIG/ARC 400 SUMO
Stainless Steel	MIG / MAG	0.8 - 1.2	MIG/ARC 400 IJ
Low -Alloy Steel	MIG / MAG	0.8 - 1.6	MIG/ARC 630 IJ



PLASMA CUTTER (Mosfet Series) CUT 40 / CUT 70



FEATURES

- Adapted Powerful Mosfet Technology
- Outstanding Cutting performance with clean and Precise finishing
- High Frequency (HF) touch ARC starting
- Over Voltage, Over Current, Over Heat auto protection function
- Suitable for cutting stainless Steel, Copper, Carbon Steel, Aluminum and Other Metals in Cast and economical way
- Capable of cutting metals in any direction and shape



CUT 40



Parameter		
Model Parameter	CUT 40 1Phase Mosfet	CUT 70 3Phase Mosfet
Input Voltage (V)	AC230V±15%	AC415V±15%
Input Power Capacity (KVA)	6.6	7.8
No-Load Voltage (V)	253	240
Output Current Range (A)	15-40	20-70
Rate Input Current (A)	30	12
Power Factor	0.73	0.93
Duty Cycle (%)	60	60
Insulation Grade	F	F
Air Pressure (KG)	4-5	4-5
Net Weight (KG)	9	19
Dimension (Inch)	15.5 X 6 X 12	20 X 8 X 15
Cutting Thickness (MM)	0.3-6.0	0.3-12.0

Product Purchase Guide			
Base Material	PlateThickness Steel (mm)	ARC Ignition	Applicable Model
Carbon Steel	0.3-6.0	Contact	CUT 40
Stainless Steel	0.3-12.0	Contact	CUT 70
Low -Alloy Steel			



- Advanced IGBT module Technology with Stable performance
- Easy to CUT thicker metals in a bast and economical way
- Outstanding Cutting performance with clean and Precise finishing
- High Frequency (HF) touch arc starting
- Over Voltage, Over Current, Over Heat auto protection function
- Suitable for cutting stainless Steel, Copper, Carbon Steel, Aluminum and Other Metals
- Capable of cutting metals in any direction and shape
- High Duty cycle for longer durations





Parameter		
Model Parameter	CUT 100 IJ 3Phase IGBT Module	CUT 160 IJ 3Phase IGBT Module
Input Voltage (V)	AC415V±15%	AC415V±15%
Input Power Capacity (KVA)	15.1	29
No-Load Voltage (V)	290	320
Output Current Range (A)	20-100	20-160
Rate Input Current (A)	23.1	44.3
Power Factor	0.93	0.93
Duty Cycle (%)	60	60
Insulation Grade	F	F
Air Pressure (KG)	4-5	4-6
Net Weight (KG)	36.5	60
Dimension (Inch)	21.5 X 11 X 21.5	26.5 X 13 X 20
Cutting Thickness (MM)	1.0 - 30.0	1.0 - 45.0

Product Purchase Guide					
Base Material	PlateThickness Steel (mm)	ARC Ignition	Applicable Model		
Carbon Steel	1.0-30.0	Pilot ARC	CUT 100 IJ		
Stainless Steel	1.0-45.0	Pilot ARC	CUT 160 IJ		
Low -Alloy Steel					



- Multi functional Submerged ARC Welding, ARC Welding and Carbon Gauging Functions
- With Constant current (CC) and Constant Voltage (CV) function
- Excellent Welding performances assuring deep welding pool and good seam
- Over Voltage, Over Current and Over Heat auto Protection
- High Duty Cycle for large scale production line





MZ 1000

MZ 1250

Parameter					
Model Parameter	MZ 1000 3Phase IGBT Module	MZ 1250 3Phase IGBT Module			
Input Voltage (V)	AC415V±15%	AC415V±15%			
No-Load Voltage (V)	76	76			
Output Current Range (A)	112-1000	112-1250			
Rate Input Current (A)	84.3	89			
No-Load Loss (W)	300	300			
Power Factor	0.93	0.93			
Duty Cycle (%)	60	60			
Insulation Grade	F	F			
Net Weight (KG)	85	85			
Dimension (Inch)	30 X 15 X 30.5	30 X 15 X 30.5			
Plate Thickness (MM)	8.0-20.0	8.0-above 20.0			
SAW wire Size (MM)	3.2-5.0	3.2-6.0			

Product Purchase Guide					
Base Material	PlateThickness Steel (mm)	Wire Diameter (∅) mm	Applicable Model		
Carbon Steel	8.0-20.0	3.2-5.0	MZ 1000		
Stainless Steel	8.0-above 20.0	3.2-6.0	MZ 1250		
Low -Alloy Steel					





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