

WELDING INVERTERS



Features:

- **Used for Welding Process** – Plasma Arc Welding, TIG Welding, MIG Welding, PTA Welding, Hard Banding
- **Latest PWM technology using IGBTs**
- **Light weight & compact** – 80% less weight compared to conventional machines
- **Saves Power Cost** – No Load Input of 0.2 Amps results in substantial savings in power cost
- **Less Power Consumption** – On load power consumption of 50% lesser than conventional machine
- **Dynamic** – Designed to work under wide voltage fluctuations protected against Over Voltage, Under Voltage, Single Phasing, and Over Heating with Indications
- **In-built selectable pulsing of 1 to 10 Hz of output current**
- **Reliable Electrode Ignition** – High OCV & controlled start current ensures reliable electrode ignition
- **Spatter Free Welding** – Fast regulation speed & excellent dynamic properties ensures spatter free welding performance even with difficult electrodes
- **Suitable for thin Sheet Welding** – Reliable start even at 3 amps in TIG without any surge in welding current makes it suitable for thin sheet welding
- **Standard inbuilt HF with fully fledged pulsing models**
- **We manufacture Heavy Duty and Standard models welding inverter**

Applications:

- Chemical plants equipments
- Dairy Equipments
- Food Processing Machinery
- Pharmaceutical Machinery
- Ornamental Metal Furniture
- Brewery Plants
- Kitchen & Hotel Equipments
- Hospital Equipments
- Pipeline Welding
- Structural Fabrication



Specifications:

Power source with scratch / touch start				
Parameters	Power 160	Power 220	Power 300	Power 400
Input				
Supply (V)	220 +/- 10%	415V +/- 10%	415V +/- 10%	415V +/- 10%
Phase / Freq. (Hz)	1 – Ø / 50 – 60	3 – Ø / 50 – 60	3 – Ø / 50 – 60	3 – Ø / 50 – 60
Max Installed Power	4.4 KW / 6 Hp	6.4 KW / 9 Hp	11 KW / 15 Hp	16.3 KW / 22 Hp
Input KVA @ 60 %	4.8	7	11.9	17.8
Input KVA @ 100 %	3.7	5.4	9.2	13.7
Output				
OCV – DC	75 – 85	75 – 85	75 – 85	75 – 85
Current Range (A)	3 – 160	5 – 220	5 – 300	5 – 400
Current at 60% (A)	160	220	300	400
Current at 100% (A)	116	170	231	308
Pulse Frequency Hz	–	1 - 10	1 - 10	1 - 10
Dynamic Arc Force (%)	0 – 100	0 – 100	0 – 100	0 – 100
Other				
Class of Insulation	H	H	H	H
Class of Protection	IP 23	IP 23	IP 23	IP 23
Cooling	Forced Air	Forced Air	Forced Air	Forced Air
Dimensions W x L x H (mm)	195 x 430 x 390	210 x 500 x 320	260 x 680 x 480	260 x 680 x 480
Weight (Kg)	21	30	51	55

Power source with HF				
Parameters	Power 160 HF	Power 220 HF	Power 300 HF	Power 400 HF
Pre Flow	1 – 10 sec.	1 – 10 sec.	1 – 10 sec.	1 – 10 sec.
Post Flow	1 – 10 sec.	1 – 10 sec.	1 – 10 sec.	1 – 10 sec.
Dimension W x L x H (mm)	195 x 430 x 390	210 x 500 x 440	260 x 680 x 480	260 x 680 x 480
Weight (Kg)	21	30	51	55

Power source with Pulsing				
Parameters	Power 160 Pulse	Power 220 Pulse	Power 300 Pulse	Power 400 Pulse
Up Slope	1 – 10 sec.	1 – 10 sec.	1 – 10 sec.	1 – 10 sec.
Down Slope	1 – 10 sec.	1 – 10 sec.	1 – 10 sec.	1 – 10 sec.
Pulse Frequency Hz	1 – 10	1 – 10	1 – 10	1 – 10
Pulse Time	10 – 90%	10 – 90%	10 – 90%	10 – 90%
Pre Settable Current	Yes	Yes	Yes	Yes
Dimension W x L x H (mm)	Same as in HF	Same as in HF	Same as in HF	Same as in HF
Weight (Kg)	21	30	51	55

- In house facilities for trial and job work.
- Column & Boom, Oscillator, Positioner, Welding Lathe, MIG / TIG / PLASMA / SAW Welding Power source available.
- NDT facilities for MPT, LPT, VT, UT available.
- Trained Welding Engineers, Technicians & ASNT level II personnel for NDT & Quality Analysis.
- Weld process development: Optimum selection of process parameter for all jobs. Preparation and qualification of WPS and PQR.

Specifications are subject to change without notice