

ITW ARC WELDING SERIES

Quality Performance, Productivity Guaranteed.

MEMCO ITW ARC Series welding inverter are designed with state of the art technology to fulfill the growing demands of the industry for quality inverter welding power sources. ITW series inverter are designed to work in tough and stringent Indian conditions giving high quality radiographic weld deposits. ITW series is **MEMCO's** answer to today's fabrication industries requirement for excellent quality weld deposits and cost effective welding.



* For heavy duty industrial applications

- Indigenously designed, compact and portable
- Inbuilt Hot start, Arc force, effective prevention of electrode freezing, VRD (Safe Welding Device) and Energy saving device.
- Dynamic control full bridge technology.
- Low noise, spatter less welding.
- All position welding current characteristics with higher reserved open circuit voltage.
- Low input KVA rating.
- Immunity from AC Input voltage fluctuation with built in overload and thermostat protection.
- Superior Performance, proven even for critical welding.
- Better arc stability over a wide input supply range.
- Initial extra injecting current with self control to prevent oxidation at every arc strike. Eliminates oxidation at arc stop and start/restart.
- Single range control from panel and also with remote control facility.
- Full wave output ripple free D.C., giving excellent weld quality with higher metal deposition and good penetration.
- Digital panel meters for displaying welding current. Maintenance free service back up.
- Designed to weld with all spec's electrodes including 6010, 6013, 7010, 7018-1, 8010 etc.

Specially designed for various industries like

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|-------------------------------|--------------------------------|-----------------------|
| ● Nuclear power | ● Automotive Industries | ● Sugar plants |
| ● Chemical process industries | ● Machinery manufacturing | ● Hydropower station |
| ● Offshore | ● Railways | ● Bridge construction |
| ● Defence | ● Aerospace | ● Refineries |
| ● Steel | ● Heavy structural fabrication | ● Drilling platforms |
| ● Thermal power | ● Dairy equipment | |

Including all other metal fabrication industries using Ferrous and non-ferrous metals.



Superior quality welding comparable with motor generator.

Technical Specifications

Model	ITW 200	ITW 250 S	ITW 250	ITW 300	ITW 400 G	ITW 600 HD
SUPPLY VOLTAGE	230V ± 10% 1 PHASE	230V ± 10% 1 PHASE	415V ± 10% 3 PHASE	415V ± 10% 3 PHASE	415V ± 10% 3 PHASE	415V ± 10% 3 PHASE
Frequency (Hz)	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
Current @ 60% duty cycle	200 Amps	250 Amps	250 Amps	300 Amps	400 Amps	600 Amps
Current @100% duty cycle	120 Amps	150 Amps	150 Amps	180 Amps	310 Amps	470 Amps
KVA@ 100% Duty cycle	4.2 KVA	6 KVA	6 KVA	7 KVA	13.5 KVA	21 KVA
Current Display	Digital	Digital	Digital	Digital	Digital	Digital
Current Range	10-200A	10-250A	10-250A	10-300A	10-400	10-600
Cooling	forced air	forced air	forced air	forced air	forced air	forced air
Tig Welding	Lift Arc	Lift Arc	Lift Arc	Lift Arc	Lift Arc	Lift Arc
No Load loss (watts)	65	65	80	80	80	100
Open circuit voltage	80 V	80 V	70 V	70 V	70 V	70 V
Overload protection	Thermal	Thermal	Thermal	Thermal	Thermal	Thermal
Power factor	0.65	0.72	0.99	0.99	0.99	0.99
Protection Class	IP-21	IP-21	IP-21	IP-21	IP-21	IP-21
Insulation Class	F (155°C)	F (155°C)	F (155°C)	F (155°C)	F (155°C)	F (155°C)
Weight (Kgs)	8.5 Kg	9 Kg	15 Kg	16 Kg	22 Kg	35Kg
Dimensions (L x W x H)mm	420 x 180 x 310	420 x 180 x 310	550 x 240 x 395	550 x 240 x 395	650 x 315 x 530	640 x 335 x560

VRD (Safe Welding Device) Energy Saver : Component takes care of safety of welders as well as machine due to safe welding device (Energy saver) which in turn reduces OCV to a low value (approximately 18-20 volts) on output side when welding is not taking place i.e. at no load and increases to normal OCV on striking of Electrode. This feature ensures that welders do not get electric shock.



Range of Welding Equipments: MMAW | MIG/MAG | TIG | Plasma Cutting |CNC |
Welding Robots | Welding Automation |

Memco has set up of best in class welding equipment manufacturing facility at Mumbai, India.

Our products & instruments are tested by NABL accredited lab.



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In pursuance of excellence we reserve the right to modify the design & dimension details without prior notice.