

400ET3 DJR

The World's Most Preferred and Reliable
High Performance IGBT Welding Rectifier
for Outdoor Fabrications



Outdoor Fabrication Specialist & VRD Inside

User Friendly Outdoor - Fabrication Features

- ▶ High Ambient Temperature Resistance upto 50°C.
- ▶ IP 23 Protection Class.
- ▶ Can withstand higher voltage fluctuations $\pm 20\%$.
- ▶ Work even with 100 meters long cable without current drop.
- ▶ Compact and light weight for easy site movement.
- ▶ DG Compatible.
- ▶ Low power consumption.

Important Safety Features

- ▶ Electric shock prevention (Built in VRD less than 13 Volt DC) to protect the operator while working in Enclosed space.
- ▶ Over-voltage and under-voltage protection.
- ▶ Overheating protection.
- ▶ Single-Phasing protection.

Other Features

- ▶ Ripple-free DC Output - Minimised spatters, Improved productivity.
- ▶ Completely manufactured in India - No issue of spares availability and service.
- ▶ TIG Welding possible with scratch start.
- ▶ Suitable for all types of electrodes like Rutile, Basic, Stainless steel, Low Hydrogen Electrode etc.
- ▶ O2 Wheels provided for easy movement on uneven surface.

Typical Outdoor Applications

- ▶ Power & Energy.
- ▶ Oil & Gas Upstream & Downstream.
- ▶ Steel Plant & Cement Plant.
- ▶ Railways.
- ▶ Infrastructure.

Technical Specifications	Units	400ET3
INPUT		
Rated Input voltage	Volts	415, ±20%
Phase/Freq.	No./Hz	3ph/50-60
Max. Input KVA@60% Duty Cycle	KVA / KW	17.02 / 16.5
OUTPUT		
Rated Current Range	Amps	20-410
Rated Output Voltage	Volts	36 (MMAW) / 26 (Scratch TIG)
Voltage Reduction Device (VRD)		< 13V DC
Welding Current:		
@60% Duty Cycle	Amps	400
@100% Duty Cycle	Amps	310
GENERAL		
Conformance to International Standards		All machines are manufactured as per std. IEC 60974-1:2000/GB 15579.1:2004
Power Control Method		IGBT Inverter Controlled
Digital Display		4 Digit, 7 segment LED Display
Hot Start & Arc Force		Adjustable from Front Panel
Ingress Protection	Class	IP 23
Insulation	Class	H
Cooling	Type	Forced Air Cooling
Power Factor		> 0.9
Operating Temperature	°C	-10 to 50
Air Carbon arc Gouging	mm	-
Dimensions (LxBxH)	mm	510 x 325 x 577.5
Weight	Kg	36 Kg
ORDERING INFORMATION		
Power Source with Remote Socket		YD-400ET3DJR

Panasonic reserves the right to alter the specifications without notice.

World-class Welding Quality at Your Doorstep

- Panasonic Smart Factory Solutions India has set-up its state-of-the-art manufacturing facility in Jhajjar, Haryana, India. So our globally proven range of welding equipment including MMAW, MIG/MAG, TIG, Plasma Cutting, Welding Accessories, and Welding Robots are now available at your doorstep.
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- All-India Sales and Service network.



Range of Welding Equipment: MMAW | MIG/MAG | TIG | Plasma Cutting | Welding Accessories | Welding Robots
Panasonic has set-up its own state-of-the-art welding equipment manufacturing facility at Jhajjar near Gurugram, Haryana, India.

PANASONIC LIFE SOLUTIONS INDIA PVT. LTD.

(Division Company: Panasonic Smart Factory Solutions India)

Head Office : 12th Floor, Ambience Tower, Ambience Island, NH-8, Gurugram - 122002, Haryana, India.
Phone: +91-124-4871300

Factory : Village Bid Dadri, Tehsil and District: Jhajjar - 124103, Haryana, India.

Eastern Regional Office : Acropolis Mall, 8/6, Plot No. 1858, 8th Floor, Rajdanga Main Road, Opp. Kasba New Market, Kolkata - 700016, West Bengal.

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400AT3

DJR/DJG/DJE

The World's Most Preferred and Reliable
400 Amps IGBT Inverter DC Arc Welding System



AT3DJR
(Amp Display)

AT3DJG
(Amp & Volt Display)

AT3DJE
(Cellulosic electrode)

3-Tier and 4-Cabinet dust-free structure

Key Features of 400 AT3



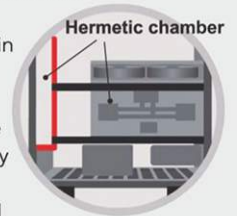
- ▶ IP 23 Protection class makes this machine suitable for indoor and outdoor application
- ▶ High Ambient Temperature resistance up to 50°C - ideal for Indian atmospheric conditions.
- ▶ Allowable Input Voltage Fluctuation range up to +/- 20%.
- ▶ Output Cable extendable to 100 meters.
- ▶ Double fan available for increased cooling efficiency.
- ▶ Compatibility with DG Sets.
- ▶ TIG Welding is possible with scratch start.
- ▶ Suitable for all kind of acidic, basic, stainless steel and low hydrogen alloy electrodes.
- ▶ Unique design of three tier and four cabinet dust-free structure for safety of electronic components.
- ▶ Stacking of machines is possible.
- ▶ Wheels provided for better mobilization.

Important Safety Features

- ▶ Electric shock prevention (Built in VRD less than 13 Volt DC) to protect the operator while working in moist, upper Air or in metal container & congested areas.
- ▶ Over-voltage and under-voltage protection.
- ▶ Overheating protection.
- ▶ Single-phasing protection.

Unique design of triple-tier and four cabinet:

The main power components, PC board, switch, potentiometer are built in two Hermetic Chambers, which effectively prevents ingress of dust. The Intake Port is positioned at the the top layer, which improves the efficiency of heat emission and also protects the electronic parts from getting damaged due to dust.



Others



400AT3

Technical Specifications	Unit	400AT3
INPUT		
Rated Input voltage	Volts	415, ±20%
Phase/Freq.	No./Hz	3ph/50-60
Max Input KVA @ 415 VAC @ 60% Duty Cycle	KVA/KW	17.6/16.7
OUTPUT		
Rated Current Range	Amps	20-410
Rated Output Voltage	Volts	36 (MMAW) / 26 (Scratch TIG)
Voltage Reduction Device (VRD)		< 13V DC
Welding Current:		
@60% Duty Cycle	Amps	400
@100% Duty Cycle	Amps	310
GENERAL		
Conformance to International Standards		All machines are manufactured as per std. IEC 60974-1:2000/GB 15579.1:2004
Power Control Method		IGBT Inverter Controlled
Digital Display		4 Digit, 7 segment LED Display
Hot Start & Arc Force		Adjustable from Front Panel
Ingress Protection	Class	IP 23
Insulation	Class	H
Cooling	Type	Forced Air Cooling
Power Factor		> 0.9
Operating Temperature	°C	-10 to 50
Air Carbon arc Gouging	mm	-
Dimensions (LxBxH)	mm	550 x 330 x 600
Weight	Kg	43
ORDERING INFORMATION		
Power Source (with Amp Meter)		YD-400AT3DJR
Power Source (with Amp & Volt Meter)		YD-400AT3DJG
Power Source (Cellulosic Electrode)		YD-400AT3DJE
Remote Controller (Optional)		TSM93067

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400AT3DJT

IGBT Controlled DC TIG/MMA
Welding Power Source



High-frequency (HF)
arc start for
non-contact
arc initiation.

More Consistent arc start with high reliability

Processes

- ▶ DCTIG (GTAW)
- ▶ Stick (MMA)

Base Metals Compatible with DC TIG

- ▶ Copper Alloys
- ▶ Cu-Ni Alloys
- ▶ Stainless Steel
- ▶ Low carbon alloys
- ▶ Low alloy steels

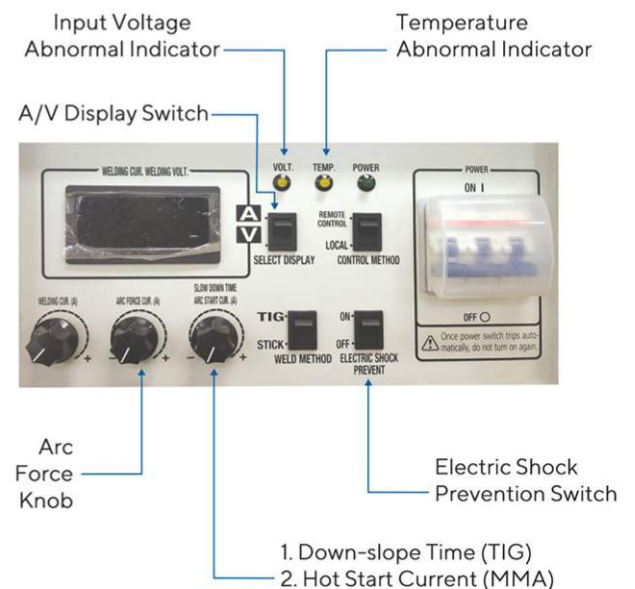
Adjustable Current Down-slope time (Crater fill in TIG Welding)

Downslope time adjustable from 0.5 to 2.3 seconds. It supports to fill the crater.

Electric Shock Prevention Switch

This feature is very useful in the wet environment, high altitude, narrow places, welding inside metal containers. When the anti-shock function is used, the output voltage is about 13V at no-load.

Exclusive Features



Hot Start (MMA)

There is a temporary increase of the output current (0.5 seconds approx.) during the start of welding. Hot Start provides excellent arc ignition without the electrode sticking.

Technical Specifications	Unit	400AT3DJT
INPUT		
Rated Input Voltage	Volts	415, ±20%
Phase/Freq.	No./Hz	3ph/50-60
Max Input KVA @ 60% Duty Cycle	KVA/KW	17.60/16.70
OUTPUT		
Open-Circuit Voltage	Volts	71
Welding Current Range	Amps	20-410
Rated Welding Current	Amps	400
Rated Welding Voltage	Volts	36 (Stick) / 26 (TIG)
Rated Duty Cycle	%	60
Gas Pre-flow (TIG)	Sec	Fixed
Gas Post-flow (TIG)	Sec	Fixed
Current Up Slope Control (TIG)	Sec	Fixed
Current Down Slope Control (TIG)	Sec	0.5 to 2.3
Adjustable Arc Force Current (MMA)	Amps	0-220
Hot Start Current (MMA)	Amps	0-150
GENERAL		
Conformance to International Standards		All machines are manufactured as per std. IEC 60974-1:2000 GB 15579.1:2004
Power Control Method		IGBT Inverter Controlled
Digital Display		4 Digit, 7 segment LED Display
Ingress Protection	Class	IP 23
Insulation	Class	H
Cooling	Type	Forced Air Cooling
Power Factor		> 0.9
Operating Temperature	°C	-10 to 50
Dimensions (LxBxH)	mm	550 x 330 x 600
Net Weight	Kg	45
ORDERING INFORMATION		
Power Source		YD-400AT3DJT

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