

Panasonic

Bangkok Welding
(Thailand)

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IGBT-controlled DC Arc Welding Machines

YD-400/630AT

The high-reliable multi-functional model adaptable to rigorous environments!

- STICK
- GOUGING



- STICK
- SIMPLE TIG



- STICK
- SIMPLE TIG

Panasonic pursues *Only one* in welding

Multiple function can meet various demands from customers.



YD-400AT3HGH



YD-400AT3HVH

YD-400AT3HGH and YD-400AT3HVH are capable of operating as a simple TIG welding machine. They are also applicable to conventional and cellulose welding rod.

- It is designed to provide the function of protection from electric shock as the means for safe working high above the ground and in damp environments.
- The extended cable having the length up to 100m (300A, 60mm²) makes it possible to work high above the ground or at a distance.
- It can be used for welding by using various acidic, basic, stainless-steel and low-hydrogen welding rods.
- The allowable fluctuation of input voltage is as $\pm 20\%$.

Remote Controller(option)



Operator can adjust welding current at hand easily

TSM93067 (for YD-400AT3HGH)

Easy for transportation and storage

Two units can be stacked for transportation and three units can be stacked for storage.



630AT3 equip with gouging function

- Commonly used carbon rod

Circular carbon rod				
Diameter	(mm)	Ø6	Ø8	Ø10
Current range	(A)	350-450	450-550	550-630
Thickness range	(mm)	5~10	8~20	12~50
Flat carbon rod				
Sectional dimension	(mm)	5×10	5×15	5×20
Current range	(A)	350-450	450-550	600-630
Thickness range	(mm)	8~12	8~20	≥20



Enhanced Arc Force Function Equipped

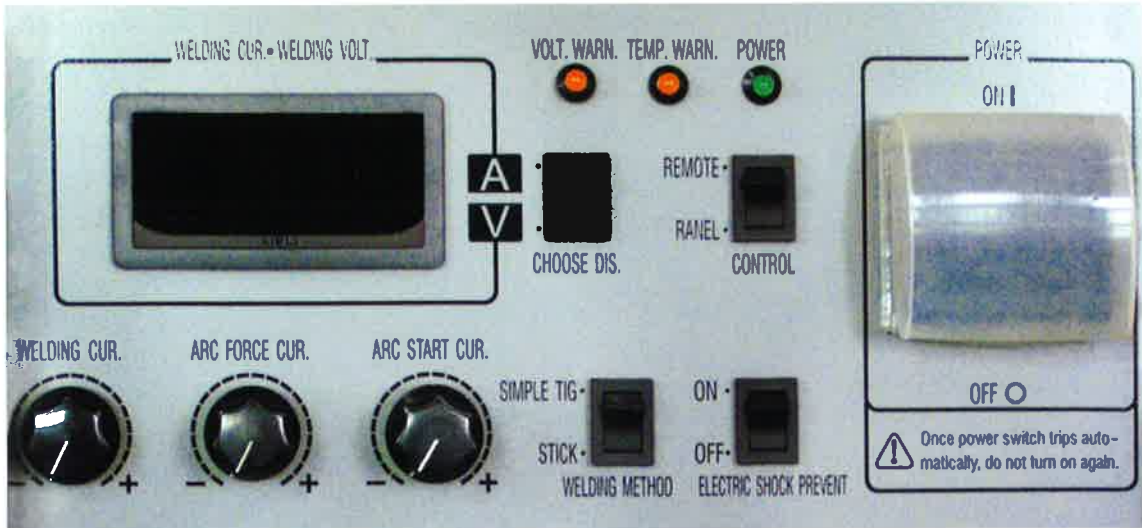
- Stick adhesion or arc break or excessive spatter during welding period can be controlled through arc force current regulation.
- Depth of molt pool and metal transfer varies with the type of welding rod used. For improved welding performance, the output current is increased to a proper value at the instant when molten drop is formed.



Electric Shock Preventing Device

- Selectable through the switch on the front panel, more convenient for operation.
- The OCV (Open Circuit Voltage) is limited under safety voltage, only 15V or so. A slight touch between welding rod and base metal will trigger this device and almost immediately output welding rated OCV so that ignite arc smoothly.
- Using this function under following site conditions:
 - √ Welding site is over 2m above ground, and there exists the danger of falling down
 - √ Welding within a limited space in electrical conductive steel structure.
 - √ In metal container
 - √ Moist place

■ User-friendly Design for operation

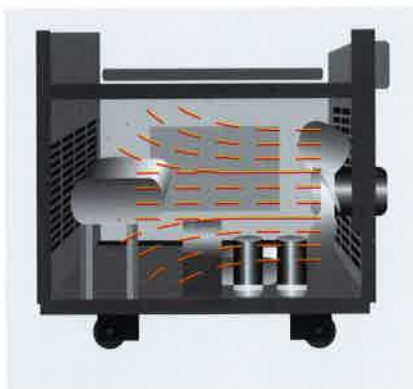


- √ Front-end panel for easier operation
- √ Digital displays for both current and voltage, more convenient for operation.
- √ Welding current pre-setting and actual output automatic changeover.

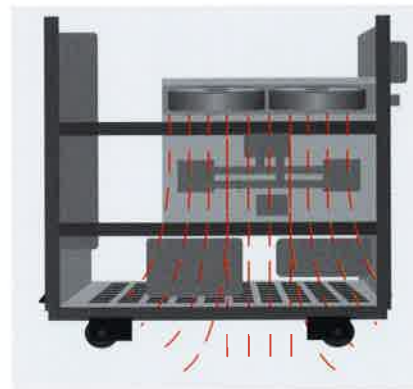
■ The high-reliable DC arc welding power unit with the enclosure protection grade IP23!

● Excellent dustproof and drop-proof

The enclosure protection is up to IP 23. The fan is improved to the design of positioning at the top and blowing downwards from the design of positioning at the rear and blowing forwards, which effectively minimizes ingress of dust and rain drops and improves the service life of the fan.



The previous model



Model 400AT3

● Excellent 3-layer and 4-chamber design

The main power components, PC Board, switch, potentiometer and so on are built in 2 hermetic chambers, which effectively prevents from ingress of dust, the intake port is positioned at the top layer, which highly improves the efficiency of heat emission.

● The high-temperature resistant design

This model can work at the ambient temperature as high as 50°C and therefore is adaptable to the high-temperature environment in field.

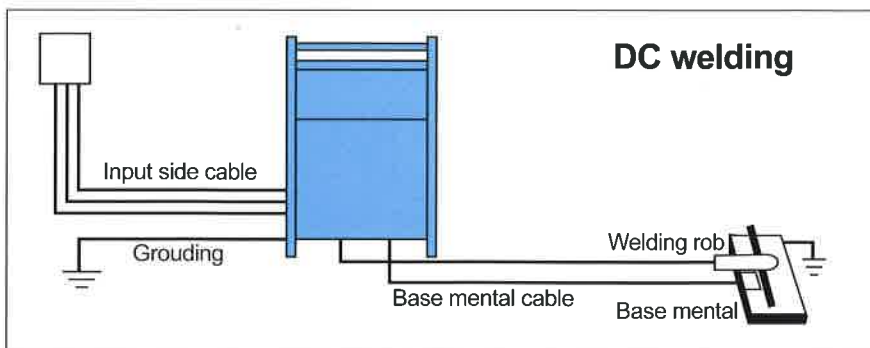
■ Specifications

Model		YD-400AT3HVH	YD-630AT3HGG
		YD-400AT3HGH	
Rated input voltage	--	3-phase 380V (50/60Hz)	3-phase 380V (50/60Hz)
Rated input capacity	kVA/kW	17.6/16.7	32.2/30.8
No-load voltage	V	71	76
Welding current	A	20~410	50~630
Force current	A	Max. 220	Max. 220
Start current	A	Max. 150	Max. 150
Rated output voltage	V	36 (STICK) /26 (SIMPLE TIG)	44
Rated duty cycle	%	60	60
Controlled mode		IGBT inverter	IGBT inverter
Cooling mode		Forced air cooling	Forced air cooling
Insulated class	—	H (B for MTr)	130°C(Reactor200°C)
Degree of protection	—	IP23	IP23
Dimension of power source (W×D×H)	mm	327 ×560× 602	327 ×619×706
Net weight of power source	kg	50	71

■ Power supply and connecting cables

Item		Model	YD-400AT3HGH	YD-630AT3HGG
			YD-400AT3HVH	
Rated Input Voltage	V		380	380
No. of Phases			3 phase	3 phase
Facility	kVA		30 or more	50 or more
Input protective device	Fuse	A	40	125
	No-fuse breaker (Earth leakage breaker)	A	50	100
Input Cable	mm ²		6 or more	10 or more
Output Cable	mm ²		38 or more	70 or more
Cable	mm ²		14 or more	16 or more

■ Connection diagram — Standard component



- ⚠ Safety precautions**
- Please instal this product in the room with no combustibel.
 - Before attempting to use any welding product, always read the manual to ensure correct use.

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