

Full Digital Pulsed MAG/MIG Welding Machine 350GE2



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Superior welding performance Excellent arc start Instantaneous response Simple operation







Full Digital Pulse waveform control technology

Features

1. Superior welding performance





Exceptional performance over wide range of material thickness

The GE2 has excellent arc stability at every current range. Precise pulse waveform control optimizes the welding arc to achieve one pulse-one drop transfer.

• High speed arc control reduces spatter

The GE2 s 32 bit RISC CPU allows us to achieve high speed waveform control. This control removes small secondary short circuits in the welding arc which is one of the factors that causes spatter and arc instability. This allows stable welding over a wide range of welding currents with less spatter generation.

stainless steel

•Suitable for wide variety of materials (aluminum, mild steel and stainless steel)



aluminum (1mm thick) 66A, 16.6V, 1m/min, pulsed MIG



stainless steel (1mm thick) 110A, 21.7V, 1m/min, pulsed MIG



mild steel (1mm thick) 90A, 21.5V, 1m/min, pulsed MAG

2. Improved arc start performance

Quick and Instantaneous Arc Starts

The GE2 produces excellent arc starting performance by using a 2 step high current arc start and impulse starting technology in a short period of time.

New FTT control

The GE2 also reduces the ball on the end of the welding wire at the end of the weld. This enables stable arc starts every time.



•New CDM Arc Start method

CDM (Current Detect Masking) method provides extremely stable and quick arc starts by precisely controlling the wire feed motor at the moment of arc ignition.



Accurate Wire control

AC servo motor with encoder realized the fine and stable wire feed control at arc start.



3. Instantaneous response to changes in arc length





mild steel 2.5mmt





produces high quality, low spatter welding.

4. Simple operation controller realizes accurate welding conditions

•Easily viewable controller and simple operation

Welding current can be set by 1 ampere and welding voltage can be set by 0.2 volt by digital display and independent JOG dials. The display shows actual output value while welding. All the welding conditions can be set by the controller.

Convenient memory function

GE2 can store up to 32 welding schedules. This function is suitable for high-mix low-volume production and will reduce the set up time. The stored data can be protected by pass word.

•Reduction of installation / set up time

Full Digital technology minimized the individual difference of welding machines and wire feeders. The best welding condition of one GE2 can be transferred easily to other GE2, This simplifies setup and allows for tighter process control.

Screen lock function

The "Screen lock" function for the controller is to disable the JOG dial, Current adjustment dial, Voltage adjustment dial and F4 key (to select pulse ON/OFF) operation which is useful to prevent accidental operation mistakes.

•Alarm indication of feed load fluctuation

5. Stable Wire Feed by motor with encoder

The encoder of wire feed motor feeds back the motor revolutions precisely and instantaneously to CPU, which commands the offset output value to keep the wire feed speed stable. If feed load on torch becomes higher or the primary input voltage fluctuates within the range of 10% of rated input, stable welding can be achieved. This allows excellent welding results under a wide variety of welding conditions.



6. Excellent performance with Panasonic G2 robots

GE2 can be connected with Panasonic's G2 robots by a single digital communication cable, an interface box is no longer required. The power source can be recognized automatically by G2 robot controller. Through full digital control, the robot can digitally fine adjust the GE2's welding waveform. The GE2 shows excellent performance in tack welding coupled with the quick and precise movement of Panasonic's G2 robots will allow a drastic reduction in short weld cycle time.





Controller YD-00DES1YAD

Please consult sales person to chose the most suitable accessories and options.

Configuration for manual welding



Combination of the equipment differs by the materials, thickness of the work pieces or welding methods. Please consult sales person to chose the most suitable accessories (ex. welding torch, gas regulator etc.) and options (ex. water cooling unit etc.).

Specifications of power source

	Standard model for Asia	CCC model for China	CE model for Europe	CUL model for US,Canada
	YD-350GE2YAA	YD-350GE2YGD	YD-350GE2YHD	YD-350HM3
Input voltage	200/220V AC Three phase	380V AC \pm 10% Three phase	400V AC \pm 10% Three phase	230/460V AC \pm 10% Three phase
Frequency	50/60Hz	50Hz		60Hz
Rated input capacity	20kVA(18kW)			
Maximum no-load voltage	74V DC	70V DC	74V DC	71V DC
Output current	30 - 350A			
Output voltage	12 - 36V	12 - 31.5V		12 - 36V
Rated duty cycle	60%			
Computer interface	RS-232C, RS-422			
Applicable welding method	CO ₂ , MIG, MAG, pulsed MIG, pulsed MAG			
Applicable wire diameter	0.8 / 0.9 / 1.0 / 1.2 mm			0.030/0.035/0.045/0.062 in.
Dimensions	380 imes510 imes485 mm	380 imes 510	imes 570 mm	15.0 $ imes$ 20.9 $ imes$ 27.2 in.
Weight	58 kg	66	kg	169 lbs. (77 kg)
Safety precautions	Before attempting to use any welding product always read the manual to ensure correct use.			

STATISTICS OF STATISTICS

We provide the products friendly to the environment.

Aiming for the earth-friendly company, Panasonic Welding Systems Co., Ltd. has been promoting to disuse hazardous substances to the products as the company policy.

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Specifications subject to change without notice.

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