

YD-280RK

Digital Inverter CO₂ / MAG Welding Machine
The Specialized machine for thin plate

CC/CV DC Inverter

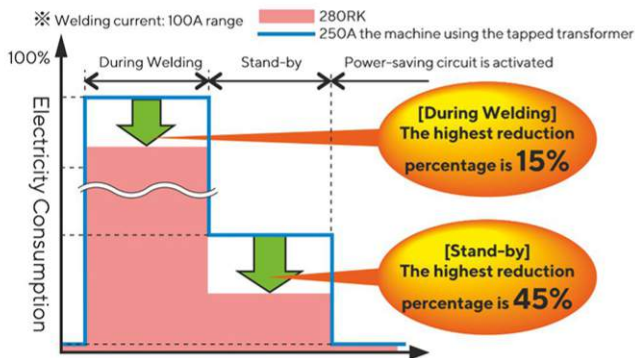


- ▶ Energy Efficiency
- ▶ Easy-to-use
- ▶ Multi-function

The edged tool for thin carbon steel plate

Higher energy a conservation level

Compared with the machine using the tapped transformer, the electricity consumption is greatly reduced.



[During Welding]

- ▶ Compared with the machine using the tapped transformer, the efficiency is significantly increased.
- ▶ High-speed CPU control, stable wire feeding and more concentrated arc bring you higher energy efficiency.

[Stand-by]

- ▶ After welding finishes, the power supplied to the transformer is cut off, no energy is consumed.

[As standard specification, the energy-saving circuit is equipped.]

- ▶ When power-saving function is enabled, about seven minutes after the end of welding, energy saving circuit can be activated and AC contractor is turned off and cooling fan stops.

Multiple application modes

Rapid Mode

A welding specialist mode specially designed for fast tack welding and short welding beads welding, providing instant arc ignition and high speed welding. Welding starts just after pressing the welding gun switch and ends after releasing it, making high welding cycle and efficiency.

Tack Welding



Mild steel/Tack
3mm thickness,
200A current
Unified Voltage
The duration of spot
welding: 0.5s

Gap Welding



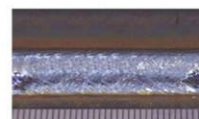
Mild steel/Fillet
1mm thickness,
110A current
Unified Voltage
3mm gap, welding
speed 0.5m/min

Standard Mode

A mode suitable for general condition, letting you to freely set and fine turn welding parameters according to welding process and operational habits.

Manual Welding Mode

- ▶ By using P menu, "Manual Welding Mode" can be set to weld acid and alkaline welding electrodes as thick as 5.0mm.
- ▶ Applicable for remote operation and maintenance purpose.



Mild steel/Fillet
2.3mm thickness,
110A/17.2V
welding speed
30cm/min
Gas: CO₂



Mild steel/
Intersecting line
1.5 thickness,
95A/17V
welding speed 50cm/min
Gas: 20%Ar + 80% CO₂

Adaptability and reliability

The fluctuation range of input voltage +/-25% Dust-proof design for PC boards and power devices Enclosure protection IP23S High duty cycle 60% Power modules at primary and secondary sides.

Easy-to-operate and excellent performance

Crystal clear operation interface

- High brightness 7-segment digital displays show preset current and voltage, actual current and voltage, error code, wire feeding speed and time etc.
- Soft-touch buttons let you easily set parameters.
- P and F menus enable you to adjust the machine as per your preference and use conditions.
- The intelligent crater function can match crater current with welding current, making operation easier.



Much better than welding machine with the tapped transformer

Higher energy conservation

Higher reliability

More stable arc

More precious control

Higher protection

More convenient operation



Rated Specifications		
Power control method	-	Digital IGBT
Rated Input	kVA / kw	10.1 / 9.6
Output characteristic	-	CV (Constant Voltage)
Rated output current	A	280
Rated output voltage	V	28
Rated duty cycle	%	60
Rated output no-load voltage	V	63
Output current adjustable range	A	50~350A
Output voltage adjustable range	V	12V~31.5V
Method of welding	-	Individual / Unitary
Enclosure protection class	-	IP23S
Insulation grade	-	H Class (Main transformer F Class)
EMC Class	-	A Class
Cooling mode	-	Air forced AF
Applicable welding wire type	-	Solid
Applicable wire size (diameter)	mm	0.8 / 1.0
Applicable wire material	-	Carbon Steel (MS)
Sequence	-	Welding / Welding-crater
Shielding Gas	-	CO ₂ (CO ₂ : 100%) MAG (Ar: 80%, CO ₂ : 20%)
Pre-flow time	-	Adjustable on F menu
Post-flow time	-	Adjustable on F menu
Dimension	mm	580 x 270 x 515
Mass	kg	35

Wire Feeder		
Model	-	YW-35KB3HKE
Rated Welding current	A	350
Applicable wire	A	0.8 1.0 MS
Shielding gas	-	CO ₂ , CO ₂ + Ar
Cable length	m	1.8
Mass	kg	10
Rated wire feeding speed	-	5-20.1m/min.
Rated duty cycle	-	60%

Welding Gun		
Model	-	YT-20CS4HAE
Rated welding current	A	200
Rated duty cycle	-	200A, 60% (CO ₂) 200A, 25% (CO ₂ + Ar)
Applicable wire	-	Solid
Applicable wire diameter	mm	0.8mm, 1.0mm (1.2mm)
Cable length	m	3m
Mass	kg	1.9
Cooling mode	-	Air

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.
- Assured commitment to long-term product support in terms of Sales, Service and Spares.
- 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.

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