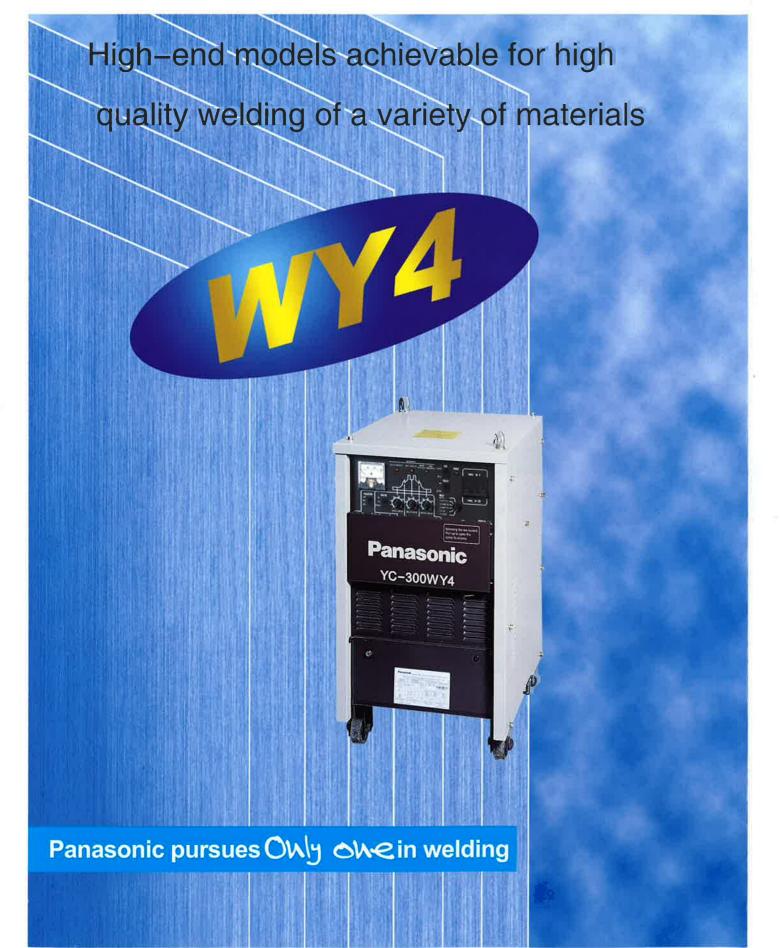


IGBT-controlled AC/DC TIG welding machine

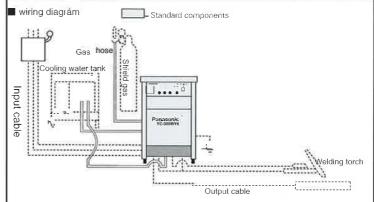
YC-300WY4



■ Specofications

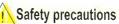
Item		Туре	YC-300WY		
Rated input voltage		V	380		
Phase			Three phase		
Input voltage fluctuation tolerance			Rated input voltage ±10%		
Rated frequency		Hz	50/60 (in common)		
Rated input		kVA/kW	10 5 / 9 0		
No load voltage	50.071011		Voltage reducing "ON": 14		
	DC STICK	V	Voltage reducing "OFF": 63		
	TIG	А	4-300		
D C output current	STICK	А	4-250		
	MIX TIG	A	10-300		
	A C STD TIG	Α_	10-300		
A C output current	A C HARD TIG	A	20-300		
	A C -SOFT TIG	A	10-200		
	TIG	V	10 2-22		
Rated D C output voltage	STICK	V	20-30		
	MIX TIG	V	10 4-21		
	A C STD TIG	V	10 8-22		
Rated A C output voltage	A C HARD TIG	V	10 8-22		
	A C SOFT TIG	V	10 4-18		
A C STD MIX INITAL CRATER current		A=	10-300		
D C INITAL CRATER current		А	4-300		
A C SOFT INITAL CRATER current		А	10-200		
A C HARD INITAL CRATER current		A	20-300		
Rated duty cycle		%	40		
Gas preflow time		S	0.3		
Gas preflow time		S	2-20		
Ups lope time		S	0 or 0 1-5 NB 1)		
Downs lope time		S	0 or 0 2-10 NB 1)		
D. I. a. francisco	MIDDLE PULSE	Hz	10-500		
Pulse frequency	LOW PULSE	Hz-	0.5-25		
Pulse width		%_	15-85		
Cleaning width			A C - STD - TIG, MIX TIG, A C SOFT TIG, A C - HARD TIG		
MIX TIG frequency		Hz	0.5-10		
Crater control process			"ON" "OFF" "REPEAT"		
Outside dimension		mm	380(W)×530(D)×730(H)		
Mass		kg	74		

N B 1) Where upslope and downslope time are to be 0 second, use the slope "SW1" switch mounted in PC board TSMPA013 - The switch is set to "ON" position at shipment.



■ Power supply equioment and connecting cables

		YC-300WY4
F	Power	3-phase AC 380V±10%
Plant capacity	Power supply	16KVA or more
	Engine generater	20KVA or more
npul protective devices	Füse	30A
	No breaker	50A
Section area of	nput power cable	6mm² or more
	Output power cable	35mm² or more
	Ground wire	14mm ² or more



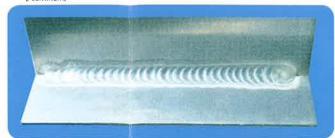
- Safety precautions Please instal this product in the room with no combustibel.

 before attempting to use any welding product, always read the manual to ensure correct use.



Various work can be treated with various welding modes

Mix TIG welding If current mixed of both direct and alternating current is used in TIG welding, the method is called MIX TIG welding.



• As concentration of arc is excellent, welding is performed effectively for fillet (overlapping) joint welding for thin aluminum plates.



Conventional TIG weiding Arc is expanded

• Since DC TIG gets in AC TIG, deep penetration is achieved.



Electrode consumption is significantly reduced.



■AC standard TIG welding



- Handles various forms of works from thin plates to thick ones.
- ■AC hard TIG welding



- Concentrated arc can be ontained Effective for welding of thin plates gap joint
- ■AC soft TIG welding



Low arc noise with soft arc

■DC TIG welding



- Choose arc starting mode based on the applications
- Mutiple spot welding
- Continuous welding
- DC manual welding



 Precisely controls arc conditions for AC/DC manual welding of stainless-steel, special steel such as Cr-Mo steel by means of refined electronics techniques so that optimum dynamic characteristics can be obtained.

Optimum mode of applications

opaman mode on approxima							
Nelding mode	Thin plate butt welding	Thin plate fillet welding	Thick plate butt welding	Thick plate fillet welding	Different thicknesses	Flanged plated	filler rod
MIX TIG	0	0	0	0	0	0	0
AC standard TIG	0	0	0	0	0	0	0
AC hard TIG	0	0	0	0	0	0	0
AC soft TIG	0	Δ	0*	0"	Δ	0	0

※There is output limitation

Versatile function for many application

Cleaning width is controlled





Enhanced pulse control

• Switch between pulse "Yes" &" No"

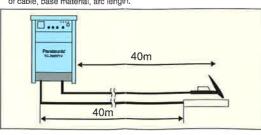
V	Low pulse	Spread arc, suitable for all position welding with different thinckness plates			
res	Yes Middle pulse	Concentrated arc, suitable for high-speed welding with thin plates			
No	Regular welding	Soft arc, suitable for both of thin and thick plates.			

- Adjustment of pulse width and frequency.
- Mix TIG welding

Many features for welding conditions

■The cable can be extened to 40m long * Depending on welding current, thickness of cable, rolling way

of cable, base material, arc length.



Excellent design

- Crater control
- Adjustment of slop-up/down time
- Adjustment of pre-flow& after-flow time
- Anti-shock prevention
- Measuring function for cooling water
- Terminal of output signal

- Error detection function:
 - OInput voltage error
- OCooling water shortage
- OAbnormal temperature
- OInput side over current
- Output side over volatge