



BP4 Series

Designed for ease of use!
Weld aluminum with ease,
beautiful finishes, and superior
quality!

- AC TIG welding
- DC TIG welding
- DC manual welding
- Welding Navigation
- Used in the competition



Panasonic
GREEN
IMPACT

1 Welding performance to achieve high-quality welding 30 Hz to 400 Hz AC output control changes aluminum welding

Users can easily reproduce the skills of experts through flexible arc control.

- Difficult fillet welding becomes easy. A filler wire can also be easily inserted.
- Increased arc convergence prevents burn through and facilitates tack welding.

* 500BP4: The maximum AC frequency is 400 Hz or less at an output current of 300 A or more.

120 Hz Multi-layer butt welding

Material: Aluminum (A5052)
Plate thickness: 8.0 mm
Current: 180 to 200 A
Speed: 0 to 20 cm/min

400 Hz Fillet welding (tack welding of thin plate)

Material: Aluminum (A5052)
Plate thickness: 1.0 mm
Current: 110 A
Welding time: 0.5 s

Easy to weld Prone to burn through

With 70 Hz (Conventional analog model)

Circumferential fillet welding

Material: Aluminum (A5052)
Plate thickness: 3.0 mm
Current: Peak current 260 A
Base current 140 A
Speed: 38 cm / min

2 Expert mode designed to enhance the skills of experts

In TIG welding, users can select modes with constant current and drooping characteristics.

3 Handy and easy-to-use operation Welding Navigation facilitates the setting of welding conditions

Extensive database holds more than 100 welding conditions. Customized and original welding conditions can be created.

Current display
(Displays set/output currents)

Parameter display
(Displays frequencies and ratios)

Liquid crystal display
(Two-tier display in Japanese)

Jog dial
(Value setting and various selection)

Standard

- DC TIG
- AC TIG
- Mix TIG
- DC manual welding
- Welding Navigation

Expert

- DC TIG
- AC TIG

Storage/reproduction

- 50 channels
- Storage name: Number
- Storage name: Alphabet, numeral, Katakana, symbols (Max 16 characters)

The welding conditions can be recorded with specific names.

300BP4 operation panel

Specifications

■ Welding power source

Model number	YC-300BP4		YC-500BP4		
Rated input voltage	V	200 to 220 AC (allowable fluctuation range: 180 to 242)			
Number of phases, rated frequency	—	3-phase, 50/60 Hz			
Rated input	—	11.4 kVA (9.7 kW)	17.3 kVA (16.5 kW)		
Maximum open circuit voltage	V	78 DC	81 DC		
Rated duty cycle ^{*1}	%	40	60		
Output current adjustment range	DC TIG	A	4 to 300		5 to 500
			AC TIG	Standard	10 to 300
	Hard			20 to 300	20 to 500
	Soft			10 to 200	20 to 330
	SP ^{*4}			10 to 200	—
	Mix TIG		10 to 300	20 to 500	
	DC manual welding		4 to 250	10 to 400	
	Expert DC TIG		4 to 300	5 to 500	
Expert AC TIG	10 to 300	20 to 500			
Control method	—	IGBT inverter type			
Memory functions	—	50-channel storage and reproduction			
Applicable welding process	—	DC TIG, AC TIG, Mix TIG, DC manual welding			
Applicable shielding gas	—	Ar: 100 %			
Up-slope time	s	0.0 to 10.0			
Down-slope time	s	0.0 to 10.0			
Pre-flow time	s	0.0 to 30.0			
Post-flow time	s	0.0 to 30.0			
Arc spot time	s	0.1 to 5.0			
AC frequency	Hz	30 to 400 (Standard: 70, SP ^{*1} : 30 to 200)	30 to max 400 (Standard: 70) ^{*2}		
Mix frequency	Hz	0.1 to 20.0 (Standard: 1.0)			
Pulse frequency	DC TIG ^{*4}	0.1 to 1 000		0.1 to 500	
	AC TIG	0.1 to 500			
	DC manual welding ^{*4}	5 to 500			
Input power supply terminal	—	Terminal block (M5 bolt fixing)			
Output terminal	—	Dinse terminal Copper plate terminal (with M8 bolt)			
External dimensions (width x depth x height) ^{*3}	mm	375×538×534		378×543×896	
Mass	kg	51		82	

*1: The duty cycle is based on JIS.

*2: The maximum frequency varies depending on the current value set.

*3: The depth dimension does not include the input power supply terminal cover on the rear panel.

*4: Compatible with software version V3.00 or later.

*With a 3 m long gas hose

■ Welding torches

Model number	Rated current (A)		Duty cycle (%) ^{*1}	Cable length (m)	Cooling method	Remarks
	DC	AC				
YT-20TS2TAG	200	140	35	4	Air-cooled	For 300BP4
YT-20TS2TAH	200	140	35	8	Air-cooled	For 300BP4
YT-30TS2	300	210	20	4	Air-cooled	For 500BP4
YT-30TS2C1	300	210	20	8	Air-cooled	For 500BP4
YT-30TS2TAG	300	210	20	4	Air-cooled	For 300BP4
YT-30TS2TAH	300	210	20	8	Air-cooled	For 300BP4
YT-30TSW2	300	210	100	4	Water-cooled	For 500BP4
YT-30TSW2C1	300	210	100	8	Water-cooled	For 500BP4
YT-30TSW2TAG	300	210	100	4	Water-cooled	For 300BP4
YT-30TSW2TAH	300	210	100	8	Water-cooled	For 300BP4
YT-50TSW2	500	350	100	4	Water-cooled	For 500BP4
YT-50TSW2C1	500	350	100	8	Water-cooled	For 500BP4

*1: The duty cycle is based on JIS.

*TAG/TAH: Dinse terminal type

● Please refer to the website for other ancillary devices and details.