DC Inverter Spot Welding / Fusing Power Supply (IPB-5000A)



IPB-5000A

Weld stability has been much improved!

Features

Four kinds of control

Secondary current, constant voltage, constant power, and combination of voltage and current can be selected to optimize weld conditions.

Weld stop

With an optional displacement monitor, it is possible to weld with uniform penetration amount all the time.

Communication

Weld condition setting and monitoring can be done with an PC through RS-232C/RS-485. Faster rise in welding current

The welding current rises 6 times faster than that with the conventional welders*.

*Compared to the conventional model, IP-217A Transformer switching feature

Five welders can be controlled by one power supply connecting an external transformer switch. Maximum welding current of 4000A

Due to the fast current rise, this power supply support for short-time/large-current welding applications.

Universal power utilities

The welding transformer supports 3-phase 200-240V or 380-480V (configured at the factory), so that it can take different power spec world wide.

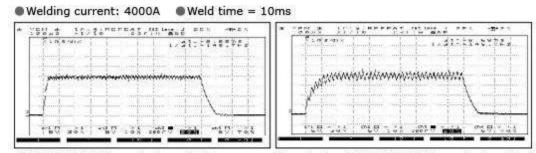
Reduced welding current ripple

Current ripple is reduced to 1/3 of that with the conventional model.* With the same effective current, this model can suppress the peak current in low value unlike the conventional models.





Comparison of welding power supply waveform



IPB-5000A/ITD-360B6 (Current rise time = 0.3ms)

[Conventional model] IP-217A/IT-510B (Current rise time = 1.8ms)

Envelope feature

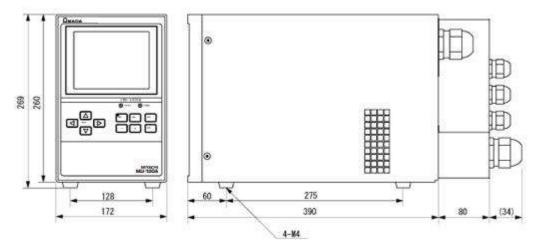
With this function, the actual wave form is judged good/bad comparing with an "envelope" waveform, which provides the permissible range. The envelope waveform is determined based either on a standard waveform (average welding waveform) or on a monitored waveforms.

Specifications

Model		IPB-5000A		
Power requirements		200 to 240VAC / 380 to 480VAC, 50/60Hz, Three phase		
Control frequency		SkHz		
Maximum output current		200A		
Maximum weld current		4000A (with ITB-780A8)		
Rated capacity		17.4kWA (with ITB-780A8)		
Control method		Secondary current / Constant voltage / Constant power / Constant current & voltage		
lumber of weld schedule		127		
Timer	Squeeze	0000 to 9999ms		
	RISE1,2	000 to 500ms		
	WELD1,2	000 to 500ms		
	COOL	00 to 99.8ms		
	HOLD	000 to 999ms		
Mass		15kg		



External view





Corresponding transformer

Power requirements	22	DVAC	440VAC			
Model	ITD-360B6	ITB-780B6	ITD-360B6	ITB-780B6		
Rated capacity	10.2 KVA	17.4kVA	10.2kVA	17.4KVA		
Rated primary voltage	300V		epov			
No-load secondary voltage	gV	13V	9V	13V		
Input frequency	5kHz					
Maximum output ourrent	4008A					
Duty factor (@100ms)	4%	2.5%	4%	2.5%		
Cooling method	Air cooling					
Dimensions and mass	183W x 323D x 186H mm / 11kg	190Wx376Dx183H mm/13kg	183Wx 323D x 186H mm/11kg	190Wx 376D x 183H mm / 13kg		



