Transistor Power Supply



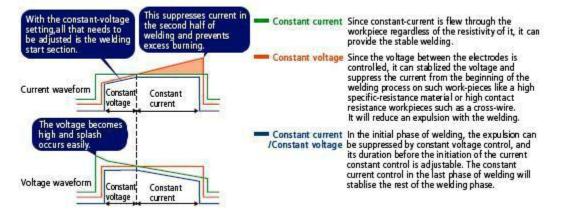
Standard: MDA-8000B MDA-4000B MDA-1000B **Polarity switchable:** MDB-4000B MDB-2000B **Two channels: MDC-2000B** Clean fine finish in a short time of welding.

MDA-4000B

MDA-8000B

Features

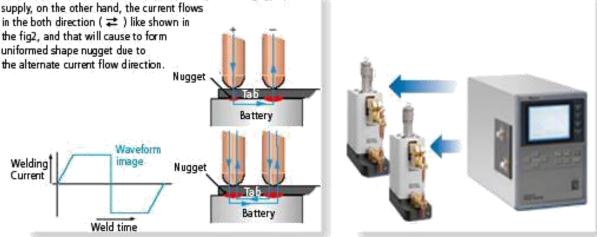
Features three types of control: constant current, constant voltage, and constant current and voltage







Polarity switching type: MDB series In a series-welding case such as tab-welding, the weld current flows only in a certain direction, as shown in the fig.1 (" \rightarrow " mark) if standard or two-channel type power supply is used. The one-way current flow would causes only one of the electrode to be heated up by Peltier (Polarity) effect, which results in uneven nugget shape and wears the electrode a lot. With a polarity-switching type power



Fast current rises.

Since the welding current rises 4.5 times faster than that with the *conventional welders, high quality welding can be accomplished in a short period of time on small work pieces.

*Compared with the conventional model MD-1500E

No welding transformer needed

The welding current is directly controlled with fast switching by transistor, so no welding transformer is required.

Three control types to choose from

You can choose from three types of control - "constant current," "constant voltage," or "constant voltage and current" - to suit the workpieces.

[□] Built-in pre-check function

Applying current on the workpiece before the main current, it is possible to judge whether or not there is a workpiece set on the electrodes, and to evaluate the status of workpiece.

[□] Polarity switchable type

This can eliminate the Peltier effect (polarity effect) and provide uniform nugget diameters on series welding.

Two-channel type

With this type, it can reduce the cast and save some spaces for time difference welding.





Specifications

Model		MDA-8000B	MDA-4000B	MDA-1000B	
Туре		Standard type			
Power requirements		Single-phase, 100 to 120VAC or single-phase, 200 to 240VAC 50/60Hz			
Maximum power consumption		350W	300W	300W	
Maximum weld current		9990A	5000A	1500A	
Maximum weld voltage		30V			
Control method		Constant current control / constant voltage control / constant curren and voltage control			
Timer setting (31 schedules)	Squeeze	000 - 999ms / 000 - 999ms X 10	000 - 999ms		
	Precheck welding	0.00 - 1.00ms			
	Precheck evaluation time	2ms (Fixed)			
	Upslope	0.00 - 9.99ms (Included in weld) *1 (Included in weld 1) *2			
	Weld (1-step welding mode) / Weld 1.2 (2-step welding mode)	0.00 - 9.99ms			
	Cool (for 2-step welding mode only)	0.00 - 9.99ms			
	Downslope	0.00 - 9.99ms (Included in weld) *1 (Included in weld 2) *2			
	Hold	000 - 999ms			
Dimensions (mm) *5		172(W) X 390(D) X 400(H)	172(W) × 390(D) × 269(H)		
Mass		28kg	18kg	15kg	

*1: 1-step welding mode

*2: 2-step welding mode

Specifications subject to change without notice.





Model		MDB-4000B	MDB-2000B	MDC-2000B	
Туре		Polarity switching type		Two-channel type	
Power requirements		Single-phase, 100 to 120VAC or single-phase, 200 to 240VAC 50/60Hz			
Maximum power consumption		350W	300W		
Maximum weld current		5000A	3000A		
Maximum weld voltage		30V			
Control method		Constant current control type / constant voltage control type / constant current and voltage control type			
Timer setting (31 schedules)	Squeeze	000 - 999ms / 000 - 999ms X 10	000 - 999ms		
	Precheck welding	0.00 - 1.00ms			
	Precheck evaluation time	2ms (Fixed)			
	Upslope	0.00 - 9.99ms (Included in weld) *1 (Included in weld 1) *2			
	Weld (1-step welding mode) / Weld 1.2 (2-step welding mode)	0.00 - 0.99ms			
	Cool (for 2-step welding mode only)	0.00 - 9.99ms			
	Downslope	0.00 - 9.99ms (Included in weld) *1 (Included in weld 2) *2			
	Hold	000 - 999ms			
Monitor display		Weld 1 and 2 (Average current / average voltage), weld 1 and 2 (Peak current / peak voltage), weld 1 and 2 (Average power / average resistance), current, voltage, power, resistance waveform, schedule number			
Dimensions (mm) *5		172(W) × 390(D) × 400(H)	172(W) X 390(D) X 2	169(H))	
Mass		28kg	18kg		

*1: 1-step welding mode

*2: 2-step welding mode

Specifications subject to change without notice.

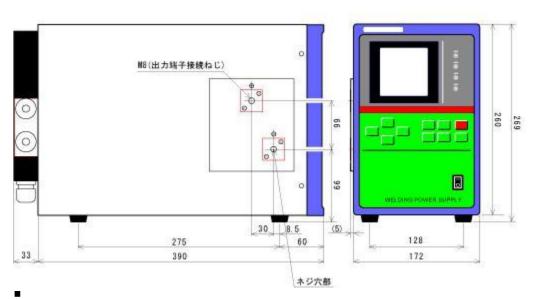




External view

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MDA-4000B MDA-1000B MDB-2000B MDC-2000B



MDA-8000B MDB-4000B

