



MDA-10000A - Linear DC Weld Controls

Multiple connection of power supplies realizes high power welding at short time. MDA-10000A: Maximum twelve units connectable (One master and eleven slave units). Design your own system to add power supplies as much as you need to obtain enough power.

One master unit controls all connected units. It does not necessary to set the weld schedule at each unit anymore. A master unit is an only unit to need to be set and controls all slave units.

All units' current feedback. The current feedback feature controls to stabilize current collectively from all connected units.

Polarity switchable type: MDB-5000A. Alternate current flow from plus and minus side reduces Peltier effect and shapes nuggets uniformly. Best suited for series welding applications.

Three control types to choose from. Both MDA-10000A and MDB-5000A employ the following three types of control:

- Constant Current
- Constant Voltage
- Constant Current and Constant Voltage

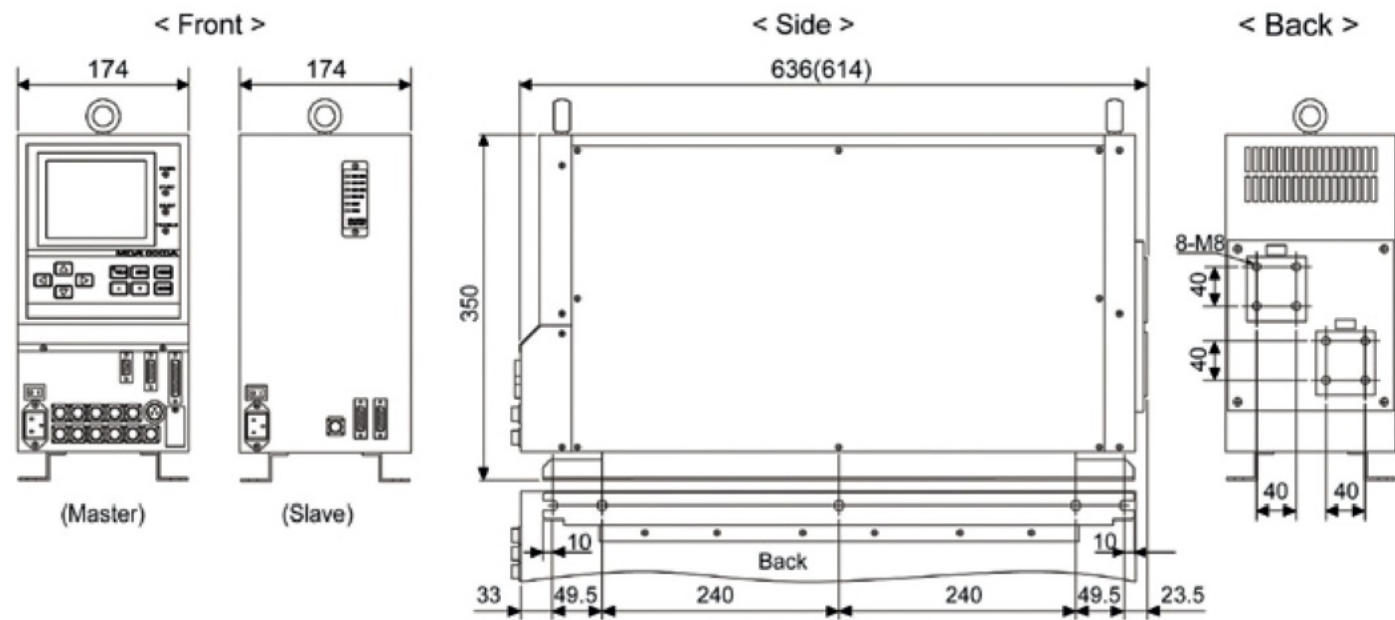
Key Features MDA-10000A - Linear DC Weld Controls

- > Monitor constant current, voltage, or both
- > Connect up to 12 units together
- > Switchable polarity

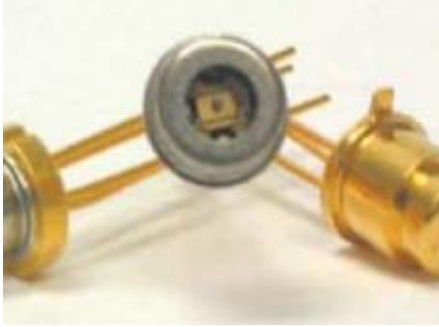
Specifications MDA-10000A - Linear DC Weld Controls

Model	MDA-10000A	MDB-5000A
Type	Standard	Polarity switchable
Power requirements	Single Phase, 100 - 120 VAC or 200 - 240 VAC, 50/60HZ	Single Phase, 100 - 120 VAC or 200 - 240 VAC, 50/60HZ
Power consumption	430 W max	430 W max
Feedback mode	Constant current / Constant voltage / Constant current and constant voltage	Constant current / Constant voltage / Constant current and constant voltage
Number of connectable unit	0 - 11 units	1 unit
Maximum current	10.0 kA - 120.0 kA	10.0KA (One master and one slave units) Master unit of MDB-5000A cannot be used alone
Time setting (31 schedules): Maximum voltage	30 V	30 V
Time setting (31 schedules): Squeeze time	0000 - 9999 ms	0000 - 9999 ms
Time setting (31 schedules): Pre-weld check	0.00 - 1.00 ms	0.00 - 1.00 ms
Time setting (31 schedules): Pre-weld check	2 ms (fixed)	2 ms (fixed)
Time setting (31 schedules): Upslope	0.00 - 9.99 ms	0.00 - 9.99 ms
Time setting (31 schedules): Cooltime	0.00 - 9.99 ms	0.00 - 9.99 ms
Time setting (31 schedules): Downslope	0.00 - 9.99 ms	0.00 - 9.99 ms
Time setting (31 schedules): Hold time	0.00 - 9.99 ms	0.00 - 9.99 ms
Monitor display	Weld 1 & 2 (average current/average voltage), Weld 1 & 2 (Peak current/peak voltage), Weld 1 & 2 (Average power/average resistance) Current, Voltage, Power, Resistance waveform, schedule number	Weld 1 & 2 (average current/average voltage), Weld 1 & 2 (Peak current/peak voltage), Weld 1 & 2 (Average power/average resistance) Current, Voltage, Power, Resistance waveform, schedule number

Drawings MDA-10000A - Linear DC Weld Controls



Product applications MDA-10000A - Linear DC Weld Controls



Optical sensor parts



Crystal oscillators



Projection welding of electronic components

AMADA[®]

AMADA WELD TECH

OUR TECHNOLOGIES



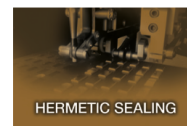
RESISTANCE WELDING



LASER WELDING



LASER MARKING



HERMETIC SEALING



HOT BAR REFLOW
SOLDERING & BONDING



SYSTEMS SOLUTIONS

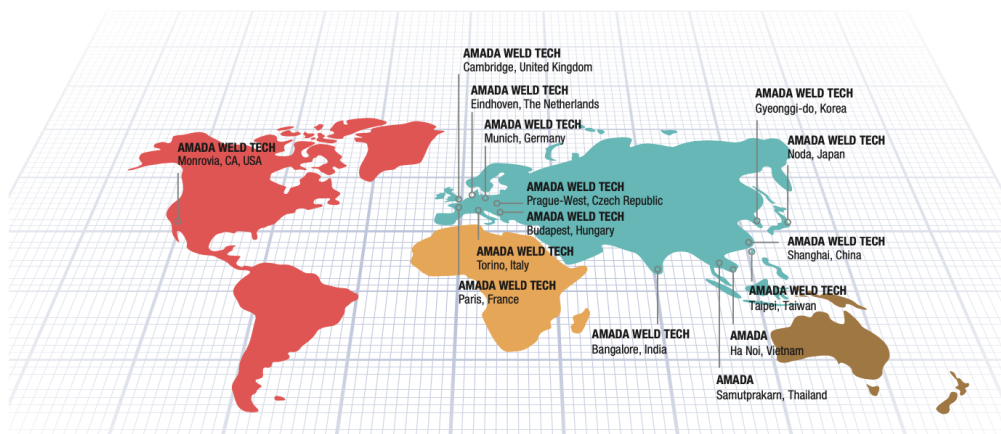


LASER CUTTING



MICRO TIG WELDING

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