![AMADA logo]

MDA-10000A Slave and Master

[Current rise of transistor-controlled welding power supply is faster than others.]

MDA-10000A/ MDA-5000A
Transistor Welding Power Supplies

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
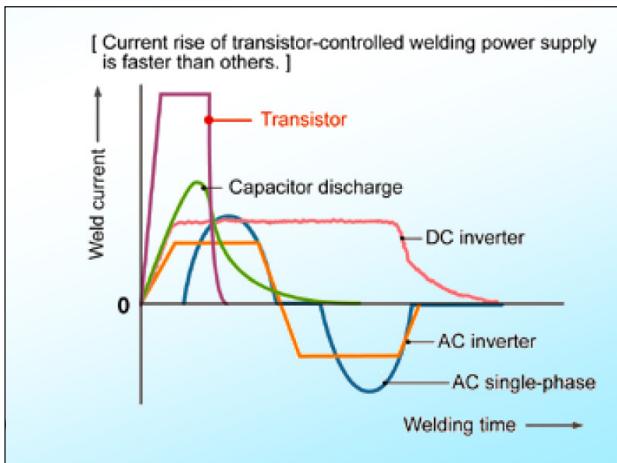
TYPICAL APPLICATIONS
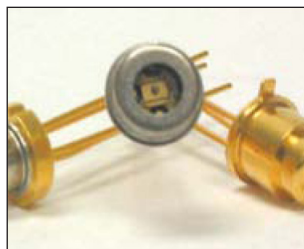
Optical sensor parts

Crystal oscillators

Projection welding of electronic components

TECHNICAL SPECIFICATIONS

Model	MDA-10000A	MDB-5000A
Type	Standard	Polarity switchable
Power requirements	Single Phase, 100 - 120 VAC or 200 - 240 VAC, 50/60HZ	
Power consumption	430 W max	
Feedback mode	Constant current / Constant voltage / Constant current and constant voltage	
Number of connectable unit	0 - 11 units	1 unit
Maximum current	10.0 kA (Master unit only)	
	30.0 kA (One master and two slave units)	
	40.0 kA (One master and three slave units)	
	50.0 kA (One master and four slave units)	
	60.0 kA (One master and five slave units)	10.0KA (One master and one slave units) Master unit of MDB-5000A cannot be used alone.
	70.0 kA (One master and six slave units)	
	80.0 kA (One master and seven slave units)	
	90.0 kA (One master and eight slave units)	
	100.0 kA (One master and nine slave units)	
	110.0 kA (One master and ten slave units)	
	120.0 kA (One master and eleven slave units)	
Time setting (31 schedules)	Maximum voltage	30 V
	Squeeze time	0000 - 9999 ms
	Pre-weld check	0.00 - 1.00 ms
	Pre-weld check	2 ms (fixed)
	Upslope	0.00 - 9.99 ms
	Weld 1 / Weld 1 & 2	0.00 - 9.99 ms
	Cooltime	0.00 - 9.99 ms
	Downslope	0.00 - 9.99 ms
	Hold time	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	

DRAWING