MDA-10000A/ MDB-5000A

Welding Power Supplies

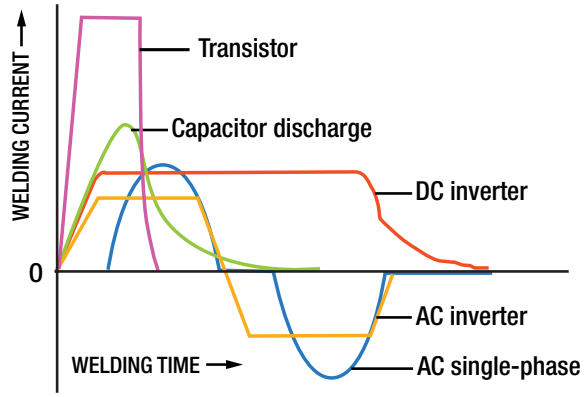
MDA-10000A Slave and Master

The MDA-10000A and MDB-5000A are transistor welding power supplies ideal for parts requiring high peak current with ultra fast rise time.

MDA-10000 can be combined with up to 12 units for combined output current. One master controls all slaves, ensuring the same weld schedule is applied to all. Built-in feedback mode ensures stable output.

The MDB-5000 features a polarity switching function that reduces the effect of the Peltier effect and improves weld uniformity.

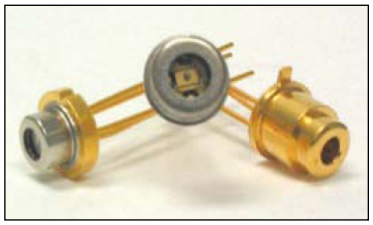
Current rise of transistor controlled welding power supply is faster than others



KEY FEATURES

- Integrate up to 12 units for combined output current for flexible configuration for various part sizes
- Current feedback for stable output and reproducible welding results
- Control modes: Current, Voltage, Power
- Easily scalable for range of part sizes
- Fast rise time facilitates welding:
  - Automotive high strength steel with high hardness values (Usibor, etc.)
  - Conductive materials such as copper and aluminum often found in automotive battery applications

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)	10.0KA (One master and one slave units) Master unit of MDB-5000A cannot be used alone.
		20.0 kA (One master and one slave unit)	
		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)	
		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	

**Maximum current output is dependent on the secondary impedance.*

WEIGHT & DIMENSIONS

Dimensions (L x W x H)	25.04 in x 6.85 in x 13.78 in (636 mm x 174 mm x 350 mm)
Weight	82 lbs (37 kg)

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