



DC-L0600A and DC-L1000A Series Linear DC Resistance Welding Power Supply (formerly known as DC613T and DC1013T Series)

Linear 1000 Amp DC Resistance Spot Welding Power Supplies

The DC-L Family of Linear DC Resistance Welding Power Supply are high performance 1,000 Amp precision Linear DC spot welding power supplies. Both models combine an easy-to-use touch panel interface, integrated database process control and monitoring with a high accuracy, zero ripple linear transistor output stage that delivers ultra-fast 10µs dynamic process response rates, with absolute closed loop 1amp incremental accuracy and repeatability.

Key features DC-L0600A / DC-L1000A Linear DC Resistance Welding Power Supply

- > High speed, ultra low ripple closed loop output control for consistent welding process definition and control
- > Constant Current, Voltage and Power modes with programmable multi-pulse combinations 1 amp steps to 1000A.
- > Programmable part & weld checking coupled with optional displacement and force limit checking.
- > Three phase 5% duty (DC-L1000A) and single phase (DC-L0600A) operational variants.
- > Full TCP/IP Ethernet interfacing to internal and external SPC database systems.
- > Associate and view PDF and text format work instructions and process manuals with weld schedules.
- > Associate and view JPEG and BMP files with weld schedules for QC and process checking.
- > 3 USB ports : USB memory stick transfer, mouse, keyboard, servo head drives, wireless etc.
- > SMART weld head force control within weld schedules.
- > High speed automation and communication ports with full remote control capability.

Specifications DC-L0600A and DC-L1000A Series Linear DC Resistance Welding Power Supply (formerly known as DC613T and DC1013T Series)

Model	DC-L0600A	DC-L1000A
Maximum output current (A)	1000 Amps DC	1000 Amps DC
Output voltage at full load	4V DC	4V DC
Maximum output power	4KW	4KW
Full output duty cycle	5% @600A, 3% @1,000A	5% @ 1000A
Control modes	Current/Voltage/Power	Current/Voltage/Power
Output accuracy of setting	±1% at Maximum Current	±1% at Maximum Current
Programmed timing values		
Squeeze time	0.1 – 999.9 ms	0.1 – 999.9 ms
Upslope time pulse 1	0.1 – 999.9 ms	0.1 – 999.9 ms
Peak time pulse 1	0.1 – 999.9 ms	0.1 – 999.9 ms
Down slope time pulse 1	0.1 – 999.9 ms	0.1 – 999.9 ms
Delay time between pulses	0.1 – 999.9 ms	0.1 – 999.9 ms
Upslope time pulse 2	0.1 – 999.9 ms	0.1 – 999.9 ms
Peak time pulse 2	0.1 – 999.9 ms	0.1 – 999.9 ms
Down slope time pulse 2	0.1 – 999.9 ms	0.1 – 999.9 ms
Hold time	0.1 – 999.9 ms	0.1 – 999.9 ms
Process monitor limits	Current/Voltage	Current/Voltage
No of waveforms averaged	User defined	User defined
Waveform window limiting range	0 - 100%	0 - 100%
Waveform window tolerances	0 - 100%	0 - 100%
Optional displacement monitoring	LVDT or Encoder Up to 6 channels of real time weld displacement monitoring	LVDT or Encoder Up to 6 channels of real time weld displacement monitoring
Input requirements	1 phase	3 phase
Input voltage	95 - 265VAC	380 - 480VAC
Control I/O	Opto isolated	Opto isolated
Serial communications	Ethernet via TCP/IP, USB 2.0, RS232	Ethernet via TCP/IP, USB 2.0, RS232
WEIGHT & DIMENSIONS		
Width	190mm (Vertical) 400mm (Horizontal)	190mm (Vertical) 400mm (Horizontal)
Height	400mm (Vertical) 190mm (Horizontal)	400mm (Vertical) 190mm (Horizontal)
Depth	400mm (Vertical) 400mm (Horizontal)	400mm (Vertical) 400mm (Horizontal)

Product applications DC-L0600A and DC-L1000A Series Linear DC Resistance Welding Power Supply (formerly known as DC613T and DC1013T Series)



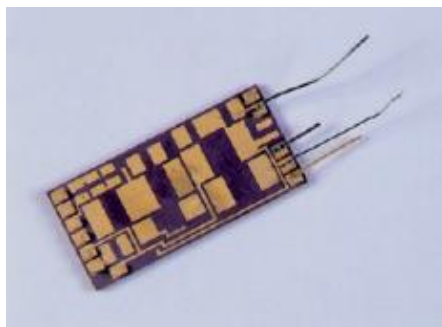
Butt welding fuses



Gold ribbon bonding



Welding components to leadframe



Welding fine wire to pad

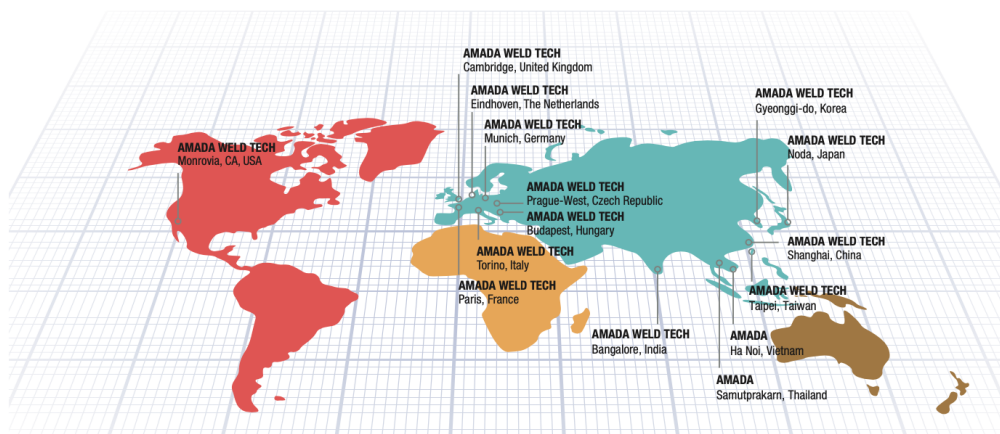
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