

DC-H3000A

Resistance Spot Welding Power Supplies

The DC-H3000A is a high performance resistance spot welding power supply, combining touch panel integrated database process control and monitoring with ultra high duty and low ripple 3000 A DC output.

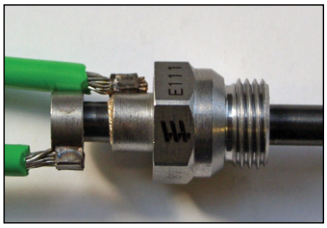
Integrating state of the art technologies, these units take the concept of real-time SPC process control to unsurpassed levels, allowing welding database profiles to be stored, monitored and adjusted from anywhere in the world via TCP/IP Ethernet.

The internal database technology provides process and production engineers with a vast array of process control features by which to enhance production line quality control and monitoring methodologies.

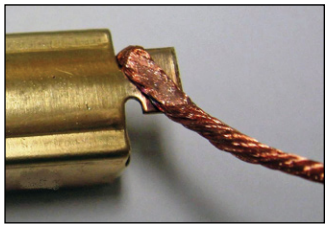
KEY FEATURES:

- Power switching system provides unsurpassed levels of DC current with ultra low ripple and fast closed-loop response to react to and control challenging applications
- High voltage outputs permit long cabling for automation and power distribution to multi-headed systems
- Full TCP/IP interfacing to internal and external database systems
- Associate and view PDF work instructions and process manuals with weld schedules
- Operator & Engineer Modes
- Associate and view JPEG and BMP files with weld schedule for QC and process checking
- 3 USB ports: for USB memory stick, mouse, keyboard
- Built in graphical SPC functionality with optional displacement monitoring with dynamic weld control
- Optional electrical system with E-Stop connectivity for automation
- Weld head force control within weld schedules.
- 7" Color Touchscreen Panel Interface with context sensitive, intuitive menu system
- High speed automation and communication ports with full remote control capability

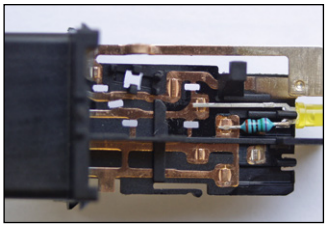
TYPICAL APPLICATIONS



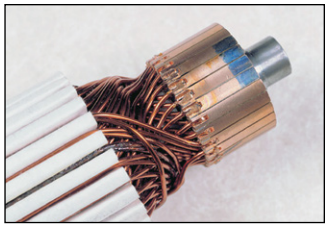
Crimp weld connector



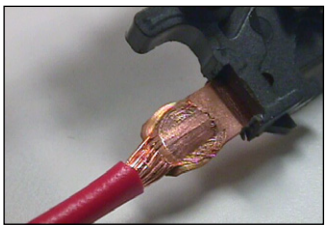
Pre compacted wire to terminal



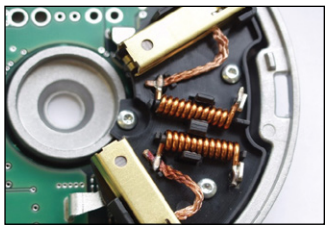
Projection weld switch dashboard



Resistance weld engine motor armature



Stranded wire to coil



Stranded wire to terminal

OPTIONS:

- Optically isolated analog electrical channel monitoring
- Available with 1, 3 or 6 channel weld displacement monitoring built-in and dynamic weld cutoff



Remote pendant option available on all models

TECHNICAL SPECIFICATIONS

Model		DC-H3000A*
Maximum output current		3000 A DC
Output voltage at full load		6 VDC
Maximum output power		18 kW
Full output duty cycle		3% @ 3000 A (2% @ 4000 A option)
Control modes		Current/Voltage/Power
Output accuracy of setting		± 1%
Ripple		< 1%
Program timing values	Squeeze time	0.1 – 999.9 ms
	Upslope time pulse 1	0.1 – 999.9 ms
	Peak time pulse 1	0.1 – 999.9 ms
	Downslope time pulse 1	0.1 – 999.9 ms
	Delay time between pulses	0.1 – 999.9 ms
	Upslope time pulse 2	0.1 – 999.9 ms
	Peak time pulse 2	0.1 – 999.9 ms
	Downslope time pulse 2	0.1 – 999.9 ms
	Hold time	0.1 – 999.9 ms
Process monitor limits		Current/Voltage (displacement)
Number of waveforms averaged		User defined
Waveform window limiting range		0 - 100%
Waveform window tolerances		0 - 100%
Optional feedback monitoring		Up to 6 channels of real time weld displacement monitoring
Displacement monitoring		LVDT or Encoder
Force range		0 - 500 N (0 - 112 lb)
Input requirements		3 phase
Input voltage		380 - 480 VAC
Control I/O		Opto isolated
Serial communications		Ethernet via TCP/IP, USB 2.0, RS232

WEIGHT & DIMENSIONS

Dimensions (W x D x H)	8.7 in x 19.6 in x 17.5 in (220 mm x 497 mm x 445 mm)
Weight	84 lb (38 kg)

**Also available in horizontal configuration. Ask factory for details.*

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