



# 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.

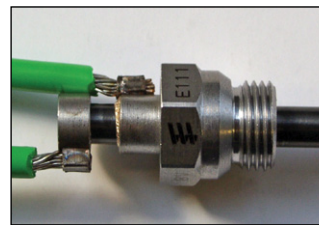
Integrating state of the art technologies, these units take the concept of real-time SPC process control to unsurpassed levels, allowing welding database profiles to be stored, monitored and adjusted from anywhere in the world via TCP/IP Ethernet.

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.

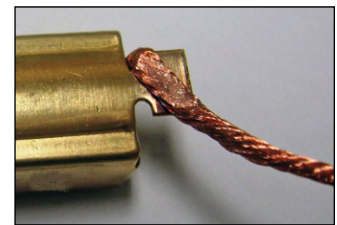
### KEY FEATURES:

- 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

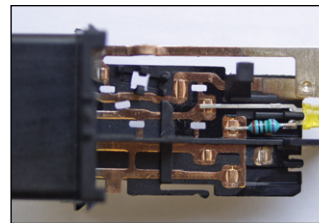
### TYPICAL APPLICATIONS



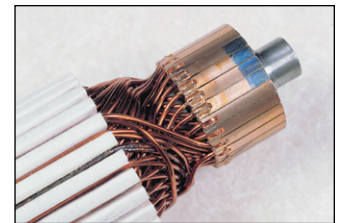
*Crimp weld connector*



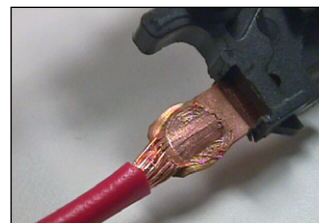
*Pre compacted wire to terminal*



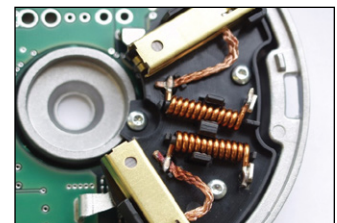
*Projection weld switch dashboard*



*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
	Upslope time pulse 1
	Peak time pulse 1
	Downslope time pulse 1
	Delay time between pulses
	Upslope time pulse 2
	Peak time pulse 2
	Downslope time pulse 2
	Hold time
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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