

Industrial Static Controls

StaticBond® SB-30A

Electrostatic Charging Power Supply

In Mold Decorating • Bagmaking • Shrink Packaging • Interleaving • Roll Changeover • Dry Bonding Lamination

The SB-30A is a state-of-the-art 150W 30kV DC power supply designed to temporarily bond materials together using electrostatic charging applicators. The programmable output of the supply ranges from zero to greater than full-scale rating (30kV potential and 5.0mA current).

The SB-30A local console provides a simple, reliable user interface for manual operation. A remote console is available for manual operation when the power supply is situated in an inconvenient or inaccessible location.

The remote console, on/off footswitch and other accessories can be connected to the SB-30A Remote-Manual port. The SB-30A also features an electronic interface for fully-automated operation with a PLC or similar equipment connected to the Remote-Auto port. Both ports can be wired using industry-standard DB-25 cables.

The SB-30A output can be programmed for either constant-voltage (CV) or constant-current (CC) mode.

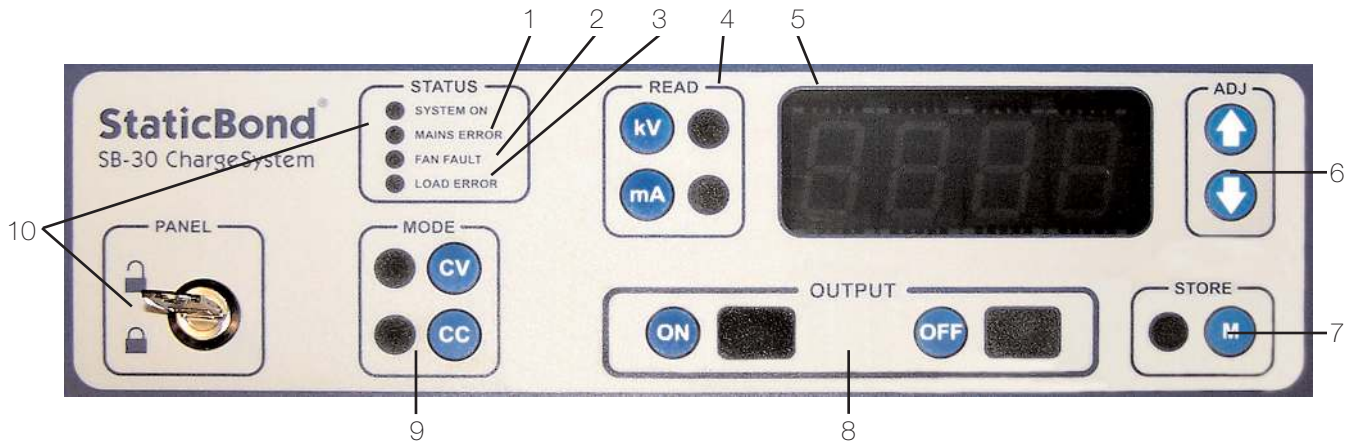


Features

- Reversible local-console orientation (factory option) for either table or wall mounting
- Flat-panel console with membrane-switch commands, LED display and key-switch lockout
- Two full-function I/O ports for manual and automated remote operation
- Output protection for short-circuit, open-circuit and arc-over load conditions
- Input protection for under-voltage and over-voltage line conditions
- Thermal protection with over-temperature shutdown and fan-failure alert
- Large, bright voltage/current-meter with signed 3-digit LED display
- Self-mounting/stacking chassis provides top and bottom attachment without separate brackets
- Four-port output compatible with most major-brand charging applicators
- Both negative and positive charging polarities, and stackable bipolar combo supply, available
- Front-panel key-switch/indicator and rear-panel configuration switches for automated operating mode



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User Interface

- 1) MAINS compliance alarm indicates under-voltage or over-voltage condition at input
- 2) FAN alarm indicates thermal fault due to cooling-fan failure or over-temperature condition
- 3) LOAD compliance alarm indicates loss of regulation due to overload at output
- 4) READ mode selects voltage or current as the output-meter parameter
- 5) 3-digit signed DISPLAY monitors selected output parameter in kV or mA
- 6) Increment/decrement ADJust commands program output setting
- 7) STORE command retains currently programmed output setting in non-volatile memory
- 8) ON and OFF control/status supports normal and standby operation at the OUTPUT
- 9) CC and CV selection/indicator(s) support dual output-programming MODEs
- 10) PANEL key-switch and SYSTEM-ON indicator enhance manual operation via local/remote consoles

Programmed Charging Modes	Constant-Voltage (CV) and Constant-Current (CC) output regulation
Output Ratings	0-30kV, 0-5.0mA, 150W
Input Ratings	100-120 or 200-240 V _{AC} ±10%, 3 or 1½ A _{RMS} , 50/60 Hz
Output Ports	4 (electrically common), high-voltage receptacles for quick-connect plug spring contacts
Dual-Voltage Input	rear-panel IEC-320 connector, power switch and reversible voltage-selecting fuse cartridge w 115V/230V selection-indicator window
Charging Polarity	positive or negative (factory option) and bipolar (dual-supply configuration)
Output Rise Time	<25ms (CC), <20ms (CV)
Output Setpoint (Remote-Auto)	0-5V, 0-10V, 0-20mA, 4-20mA FSR (selectable w rear-panel configuration switches)
Output Monitors (Remote-Auto)	0-5V, 0-10V FSR (selectable w rear-panel configuration switches)
Output On/Off (Remote-Auto)	enable (remote-auto on/off control) / disable (always on) via rear-panel configuration switch or via remote-wired switch
Remote-I/O Port Connectors	25P D-subminiature socket/receptacle (DB-25F)
Key-Switch Lockouts	front-panel auto / console selection and console-command enable / disable selection switches with removable keys
Enclosure	epoxy-painted steel, blue
Dimensions	26.2cm x 11.3cm x 34.0cm (10-5/16" x 4-7/16" x 13-3/8"), W x H x D
Mass (Weight)	6.7kg (14-2/3 lbs.)
Operating Temperature	0°C to 40°C (32°F to 104°F) ambient



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