

Industrial Static Controls

StaticBond SB-30

Electrostatic Charging Power Supply

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

The SB-30 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-30 control console provides a simple, reliable user interface for manual operation. An identical remote control console is available for manual operation when an SB-30 is situated in an inconvenient or inaccessible location (e.g. within a closed electrical cabinet) during operation. The remote control console connects to the SB-30 with an industry-standard DB25 cable (up to hundreds of feet long), and requires no other connections (e.g. power) for operation.



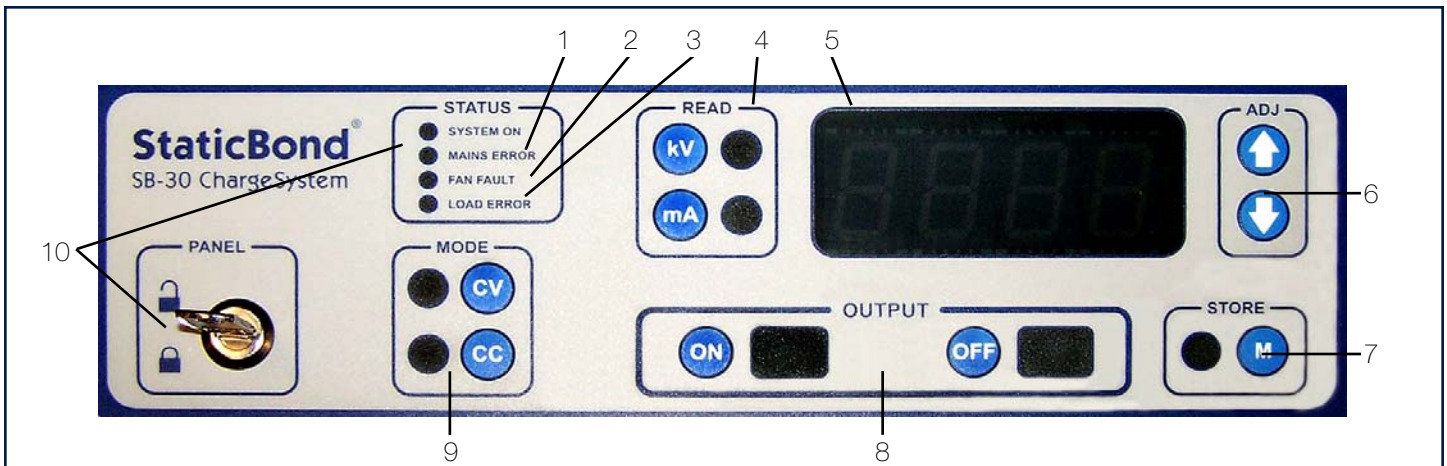
The SB-30 features an electronic interface for automated operation when connected to a PLC. All of the control and monitoring functions provided at the console for manual operation are also available electronically for remote automated operation.

The SB-30 is capable of output regulation in either constant-voltage (CV) or constant-current (CC) mode. The output mode is electronically programmable and can be conveniently switched without opening the power supply enclosure, unlike other brands.

Features

- Dual front-panel orientation (factory option) for either table or wall mounting
- Flat-panel console with membrane-switch commands and LED display
- Local and/or remote control console with key-switch lockout
- DB-25 connector for manual or automated PLC remote I/O
- Output protection for short-circuit, open-circuit and arc-over load conditions
- Input protection for under-voltage and over-voltage line conditions
- 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
- Stackable SB30 combo available for applications requiring both positive and negative charging
- Front-mounted power switch for easy access and visibility





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 sets the units for the LED DISPLAY (5)
- 5) LED Meter displays and monitors output value for READ (4) units
- 6) Increment/decrement ADJUST commands program output setting
- 7) Nonvolatile STORE command retains currently programmed output setting in EEPROM through power cycling
- 8) OUTPUT ON/OFF control and status provides normal and standby operation
- 9) CC/CV MODE selection and status supports dual output-programming modes
- 10) PANEL key and SYSTEM-ON indicator enhance manual operation via local/remote consoles

Programmed Charging Modes	Constant-Voltage (CV) and Constant-Current (CC)
Rated Output Voltage	0-30kV
Rated Output Current	0-5.0mA
Delivered Output Power	>150W
Output Ports	4 (common/bussed)
Charging Polarity	positive or negative (factory option)
Dual Input Voltage	single-link configurable option 85V-132V @ 47-63Hz (link installed) 170V-265V @ 47-63Hz (link not installed)
Input Power	240W max.
Output Rise Time	<25ms
Remote-I/O Connector	25P D-subminiature (DB-25)
Automated Remote Commands	5V logic pull-down (active-low)
Automated Remote Monitors	0-5V, 4.5V@full-scale o/p nom. (voltage and current)
Programmed Setting Lock-Out	front-panel removable key lock
Enclosure	epoxy-painted steel
Dimensions	26cm-W x 10cm-H x 30cm-D (10"W x 4"H x 12"D)
Weight	5.6kg (12 lbs.)
Operating Temperature	0°C to 55°C (32°F to 131°F)