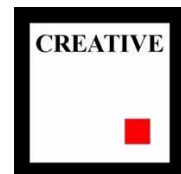


# HIGH-STABILITY, TRUE BIPOLAR 600W POWER SUPPLY



CURRENT-CONTROLLED, SWITCH-MODE POWER CONVERTER FOR ELECTROMAGNETS



## SMI-DB1600

### Salient Features

|                          |   |
|--------------------------|---|
| Input Voltage            | : 60 V (max) dc regulated/unregulated (for power electronics)<br>18 V – 0 – 18 V $\pm$ 10%, 50 Hz $\pm$ 3%, 0.5 A ac (for control electronics)  |
| Maximum Output Voltage   | : Upto $\pm$ 50 V DC  |
| Maximum Output Current   | : Upto $\pm$ 15 A DC  |
| Output Polarity          | : True-bipolar with smooth zero-crossing.   |
| Maximum Output Power     | : Upto 600 W  |
| Output Current Stability | : Within $\pm$ 100 ppm of the full-scale current for 8 hours after 1 hour warm-up   |
| Form Factor              | : Standard 19-inch rack compatible 6U, 12 T card of 220 mm depth  |
| Connector                | : Hybrid (power + control pins) EURO connector  |
| Front Panel              | : 6U, 12 T fascia plate   |
| Front Panel Accessories  | : <ul style="list-style-type: none"><li>· 3mm LED indicators for indication of auxiliary supply, power converter ON/OFF, faults</li><li>· Three test jacks to measure current set reference, current readback</li><li>· A push-button to reset the faults</li><li>· 9-pin sub-D connector to monitor more signals for diagnostics</li><li>· 25-pin sub-D connector for interfacing the power converter for remote operation</li></ul> |
| Protections              | : <ul style="list-style-type: none"><li>· Output over-current</li><li>· Heatsink over-temperature</li><li>· Two external interlock</li></ul>  |
| Cooling                  | : Air natural   |

### Areas of Application

- Magnet Applications Particle Beam Correctors and Injectors
- Automotive – Battery and motor simulation
- Capacitor testing

## S M CREATIVE ELECTRONICS LIMITED

No. 35, Hartron Complex, Electronic City, Sector-18, Type-A, Udyog Vihar, Phase-IV, Gurugram (Haryana)- 122015  
India. Tel: + 91 - 124 4909850 Fax: +91 011 66173638 Visit us at: [www.smcel.com](http://www.smcel.com)