CENB1080





ITE Switch-Mode Power Supply

- ·100-240VAC Universal Input
- •Meets EISA2007, CEC Efficiency Level V, EU (EC) No 278/2009 Phase II
- ·Desktop Style
- •12V to 48V Single Output Models, up to 80W
- ·Modified and Custom Designs Available
- ·Regulated Output with Low Ripple
- ·Impact-Resistant Polycarbonate Enclosure
- ·No Load Power Consumption <0.5W
- •Certified to UL/EN/IEC60950-1, 2nd Edition



3 Year Warranty









| Specifications | All Specifications are typical at nominal input, full load at 25°C unless otherwise stated. | | | | | |
|--------------------|---|--|---|--|--|--|
| AC Input | 100-240Vac, +/-10%, 47-63 Hz, 1Ø | MTBF | >100,000 hours calculated | | | |
| Input Current | 100Vac: 1.35A | Hold-up Time | 18 ms min. @ 115Vac, 60 ms min. @ 230 Vac | | | |
| Inrush Current | 60A peak @ 264Vac, cold start | Overload Protection | Hiccup Mode | | | |
| Input Fuse | 3.15A, 250V Internal Primary Current Fuse provided | Short Circuit Protection | Hiccup Mode | | | |
| Efficiency | Meets International Efficiency Level V | Topology | Switching – Fixed Frequency Flyback | | | |
| Output Voltage | See chart | Safety and EMC Approvals | EN/IEC/CSA/UL60950-1, 2 nd Edition EMC: See chart | | | |
| Output Power | See chart | Dielectric Withstand | Input-Output: 4,242Vdc Input-GND: 1,500 Vac, Output-GND: 500Vdc | | | |
| Ripple and Noise | 1% pk-pk max., 20MHz BW | Operating Temperature | 0° to 40°C, no derating | | | |
| Line/Load Regulati | on Line: +/- 1 to 2%, Load: +/-5% at end of cable | Storage Temperature | -30 to +85°C | | | |
| Transient Respons | e 500μs max., 50% load step, typical | Relative Humidity | 5% to 95%, non-condensing | | | |
| Minimum Load | Not required | Altitude | 0 to 10,000 ft | | | |
| Case Material | Black 94V0 Polycarbonate | Output Connections Connector: Ault #3, | Cable: 20AWG, 1,800mm, 4 conductor 2.5mm barrel or #51, 6-pin Molex (12V model) | | | |
| Case Dimensions | 131 x 72 x 43mm. See outline drawing | Weight | 500g | | | |

| EMI/EMC Compliance | | | | | | |
|---|---|--|--|--|--|--|
| Conducted Emissions | FCC Part 15, Class B, EN55022 Class B, EN55024 | | | | | |
| Radiated Emissions | FCC Part 15, Class B, EN55022 Class B, EN55024 | | | | | |
| Voltage Fluctuations | EN61000-3-3, Line Flicker | | | | | |
| Static Discharge Immunity | EN61000-4-2, 6kV Contact Discharge, 8kV air discharge | | | | | |
| Radiated RF Immunity | EN61000-4-3, 3V/m. | | | | | |
| EFT/Burst Immunity | EN61000-4-4, 2kV/5kHz | | | | | |
| Line Surge Immunity | EN61000-4-5, 1kV differential, 2kV common-mode | | | | | |
| Conducted RF Immunity | EN61000-4-6, 3Vrms | | | | | |
| Power Frequency Magnetic Field Immunity | EN61000-4-8, 3A/m | | | | | |
| Voltage Dip Immunity | EN61000-4-11 crit. A, 100Vac 60Hz, 40%/5 cycles with 70% full load. | | | | | |
| Line Frequency Harmonics | EN61000-3-2, Class A | | | | | |

CENB1080

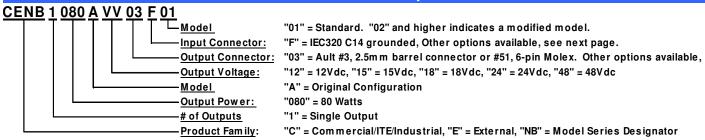
Universal Input 80 Watt Series

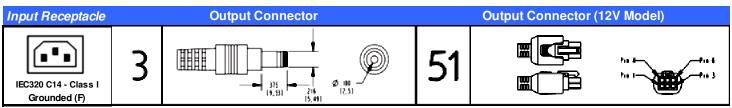
ITE Switch-Mode Power Supply

3 Year Warranty

| Model Number | Volts (V) | Output Current (max) | Max Watts | Ripple (Vp-p max) |
|------------------|-----------|----------------------|-----------|-------------------|
| CENB1080A1251F01 | 12 V | 6.5 A | 78.0 W | 120mV |
| CENB1080A1503F01 | 15 V | 5.2 A | 78.0 W | 150mV |
| CENB1080A1803F01 | 18 V | 4.33 A | 78.0 W | 180mV |
| CENB1080A2403F01 | 24 V | 3.25 A | 78.0 W | 240mV |
| CENB1080A4803F01 | 48 V | 1.65 A | 79.2 W | 480mV |

Model Number Key



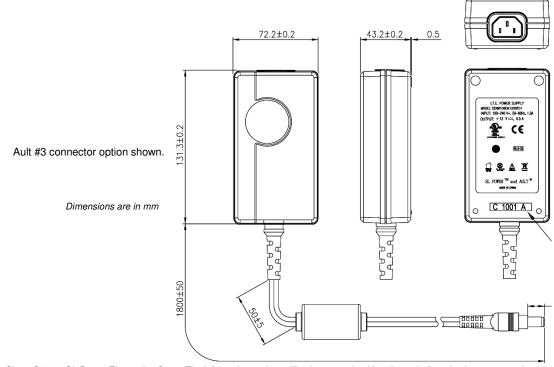


"#3" Connector is 2.5mm barrel type, center (+)

"#51" Connector is Molex 39-01-2060 or equivalent.

"51" Connector Pinout: Pins 1, 4: (+), Pins 3, 6: (-). Mate = Molex 39-01-2061 or equiv.

Outline Drawing



Data Sheet © 2011 SL Power Electronics Corp. The information and specifications contained herein are believed to be correct at the time of publication. Rev. 4-25-2011 However, SL Power accepts no responsibility for consequences arising from reproduction errors or inaccuracies. Specifications are subject to change without notice.