

# CENB1150

Universal Input 150 Watt Series



## Industrial/ITE Switch-Mode Power Supply

3 Year Warranty

- 90-264VAC Universal Input
- Meets Efficiency Level V, EU(CE) No 278/2009 Phase II
- Desktop Style
- 12V to 24V Single Output Models, up to 150W
- Modified and Custom Designs Available
- Regulated Output with Low Ripple
- Impact-Resistant Polycarbonate Enclosure
- No Load Power Consumption <0.5W
- Meets UL/EN/IEC60950-1, 2<sup>nd</sup> Edition



### 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        | 100 Vac: 2.5 A                                     | Hold-up Time             | 18 mS min @ 110Vac, 21mS min @ 240 Vac                                                                 |
| Inrush Current       | 60A peak @ 264Vac, cold start                      | Turn-on Time             | 2 sec max @110/240Vac                                                                                  |
| Input Fuse           | 3.15A, 250V Internal Primary Current Fuse provided | Output Rise Time         | 200mS max @ 11/240Vac                                                                                  |
| Efficiency           | Meets Efficiency Level V, ErPII                    | Overload Protection      | Hiccup Mode                                                                                            |
| Output Voltage       | See chart                                          | Short Circuit Protection | Hiccup Mode                                                                                            |
| Output Power         | See chart                                          | Topology                 | Switching – Fixed Frequency Flyback                                                                    |
| Ripple and Noise     | 1% pk-pk max., 20MHz BW                            | Safety and EMC Approvals | EN/IEC/CSA/UL60950-1, 2 <sup>nd</sup> Edition<br>EMC: See chart                                        |
| Line/Load Regulation | Excluding Cord: Line: +/- 1%, Load: +/-5%          | Dielectric Withstand     | Input-Output: 4,372Vac<br>Input-GND: 2,186Vac, Output-GND: 500Vdc                                      |
| Transient Response   | 500µs max., 50% load step, typical                 | Operating Temperature    | 0° to 35°C, no derating                                                                                |
| Minimum Load         | Not required                                       | Storage Temperature      | -30 to +85°C                                                                                           |
| Case Material        | Black 94V0 Polycarbonate                           | Relative Humidity        | 5% to 95%, non-condensing                                                                              |
| Case Dimensions      | 212mm x 67.4mm x 48mm, see mechanical drawing      | Altitude                 | 0 to 5000m                                                                                             |
| Weight               | 700g                                               | Output Connections       | Cable: 18AWG UL2464, 1,200mm, 4 conductor<br>Connector: Ault #51, 6-pin Molex, other options available |

### EMI/EMC Compliance

|                                         |                                                                                                                 |
|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| Conducted Emissions                     | EN55011/22, Class B                                                                                             |
| Radiated Emissions                      | EN55011/22, Class B                                                                                             |
| Line Frequency Harmonics                | EN61000-3-2                                                                                                     |
| Voltage Fluctuations                    | EN61000-3-3, Line Flicker                                                                                       |
| Static Discharge Immunity               | EN61000-4-2, 6kV Contact Discharge, 8kV air discharge, Criteria A                                               |
| Radiated RF Immunity                    | EN61000-4-3, 3V/m, Criteria A                                                                                   |
| EFT/Burst Immunity                      | EN61000-4-4, 2kV/5kHz, Criteria A                                                                               |
| Line Surge Immunity                     | EN61000-4-5, 1kV diff., 2kV common-mode, Criteria A                                                             |
| Conducted RF Immunity                   | EN61000-4-6, 3Vrms, Criteria A                                                                                  |
| Power Frequency Magnetic Field Immunity | EN61000-4-8, 3A/m, Criteria A                                                                                   |
| Voltage Dip Immunity                    | EN61000-4-11, 100% dip, 10mS, Crit. A; 60% dip, 100mS, Crit. A; 30% dip, 500mS, Crit. C; 100%, 5000mS, Crit. C. |

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| Model Number     | Volts (V) | Output Current (max) | Max Watts | Ripple (Vp-p max) |
|------------------|-----------|----------------------|-----------|-------------------|
| CENB1150A1251F01 | 12 V      | 12.5 A               | 150 W     | 120mV             |
| CENB1150A1551F01 | 15 V      | 10.0 A               | 150 W     | 150mV             |
| CENB1150A1851F01 | 18 V      | 8.3 A                | 150 W     | 180mV             |
| CENB1150A2451F01 | 24V       | 6.25 A               | 150 W     | 240mV             |

## Model Number Key

**CENB 1 150 A 12 51 F 01**

Model

Input Connector:

Output Connector:

Output Voltage:

Model

Output Power:

# of Outputs

Product Family:

"01" = Standard. "02" and higher indicates a modified model.

"F" = IEC320 C14 grounded. Other options available, see below.

"51" = Molex 39-01-2060. Other options available.

"12" = 12Vdc, "15" = 15Vdc, etc.

A = Original Configuration

"150" = 150 Watts

"1" = Single Output

"C" = Commercial/Industrial/ITE, "E" = External, "NB" = Model Series Designator

## Connector Information

| Input Connector Options                                                                                                                   | DC Output Connector                      |                                                    |                            |
|-------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|----------------------------------------------------|----------------------------|
|                                                                                                                                           | Output Connector Options                 | Pinout                                             | Mating Connector           |
| <u>Class I (grounded) Inlet:</u><br>"F" = IEC60320 C14<br><u>Class II (ungrounded) Inlets:</u><br>"N" = IEC60320 C8<br>"Q" = IEC60320 C18 | "51" = 6 pin, Molex 39-01-2060 or equiv. | Pins 1,4: +Vout<br>Pins 3,6: -Vout<br>Pins 2,4: NC | Molex 39-01-3063 or equiv. |

## Outline Drawing

"F" Inlet shown.  
Other options available, see above.

