

CENB1030

Universal 30 Watt Series



ITE Switch-Mode Power Supply

3 Year Warranty

- 100-240VAC Universal Input
- Meets EISA2007, CEC Efficiency Level V, EU (EC) No 278/2009 Phase II
- Certified to UL/EN60950-1, 2nd Edition
- 5V to 48V outputs, up to 32W
- Modified and Custom Designs Available
- Regulated Output with Low Ripple
- Impact-Resistant Polycarbonate Enclosure
- No load Power Consumption <0.3W
- Limited Power Source
- Desktop & Wall Plug Styles



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: 0.9A | Hold-up Time | 18 ms min. @ 115VAC, 60 msec @ 230VAC |
| Inrush Current | 60A peak, 264Vac, cold start | Turn-on Time | 2 seconds, max. |
| Input Fuse | 3.15A Internal Primary Current Fuse is provided | Topology | Switching – Fixed Frequency Flyback |
| Efficiency | Meets EISA2007, CEC Efficiency Level V, and EU(EC) No. 278/2009 Phase II requirements | Overload Protection | Hiccup Mode |
| Output Voltage | See chart | Short Circuit Protection | Hiccup Mode |
| Output Power | See chart | EMC | See chart below |
| Ripple and Noise | 1% pk-pk max., 20MHz BW | Safety Standards | EN/IEC/CSA/UL60950-1, 2nd Edition, LPS |
| Line & Load Voltage Regulation | Line: +/- 1%, Load: +/-5% | Dielectric Withstand | Input-Output: 4,242VDC, Input-GND: 1,500 Vac, Output-GND: 500Vdc |
| Transient Response | 500µs max., 50% load step, typical | Operating Temperature | 0° to 40°C, no derating |
| Minimum Load | Not required | Storage Temperature | -40° to +85°C |
| Case Material: | Black 94V0 Polycarbonate | Relative Humidity | 5% to 95%, non-condensing |
| Case Dimensions: | 95 x 54 x 31mm. See outline drawing Weight = 200g | Altitude | 0 to 10,000 ft |
| Output Connector: | 2.5mm barrel type (Ault #3) connector, center contact (+). Other options available | Output Cable: | 5V – 9V models: #18AWG (SPT-1), 1,500mm, 2 conductor 12V – 48V models: #18AWG (UL1185), 1,500mm, 2 conductor |

EMC Specifications

| | |
|---|---|
| Conducted Emissions | EN55022 Class B, FCC Part 15, Class B. |
| Radiated Emissions | EN55022 Class B, FCC Part 15, Class B. |
| Line Frequency Harmonics | EN61000-3-2, Class A |
| Voltage Fluctuations/Flicker | EN61000-3-3 |
| 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, Criteria B |

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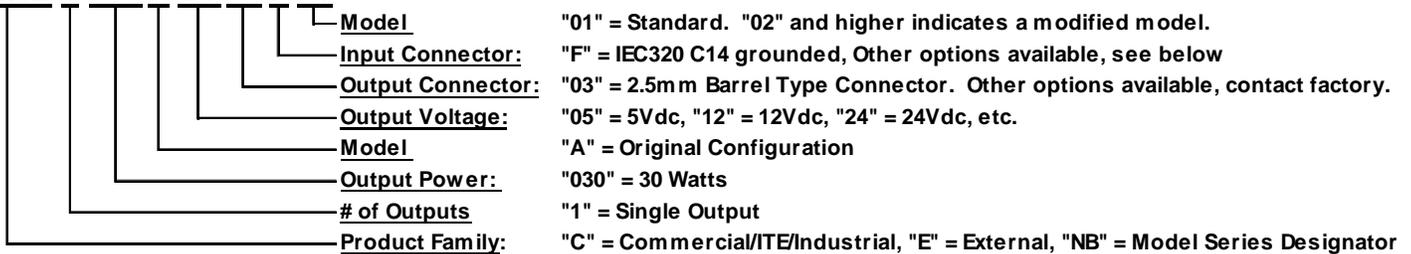
3 Year Warranty

| Model Number | Volts (V) | Output Current (max) | Max Watts | Ripple (Vp-p max) |
|------------------|-----------|----------------------|-----------|-------------------|
| CENB1030A0503F01 | 5 V | 4.00 A | 20.0 W | 50 mV |
| CENB1030A0703F01 | 7.5 V | 3.00 A | 22.5 W | 75 mV |
| CENB1030A0903F01 | 9 V | 3.00 A | 27.0 W | 90 mV |
| CENB1030A1203F01 | 12 V | 2.50 A | 30.0 W | 120 mV |
| CENB1030A1403F01 | 14 V | 2.10 A | 29.4 W | 140 mV |
| CENB1030A1503F01 | 15 V | 2.00 A | 30.0 W | 150 mV |
| CENB1030A1803F01 | 18 V | 1.67 A | 30.0 W | 180 mV |
| CENB1030A2403F01 | 24 V | 1.33 A | 31.9 W | 240 mV |
| CENB1030A4803F01 | 48 V | 0.67 A | 32.1 W | 480 mV |

Notes: Part numbers above include #3 output connector and IEC320 C14 grounded input receptacle. See below for other options.

Model Number Key

CENB 1 030 A VV 03 F 01

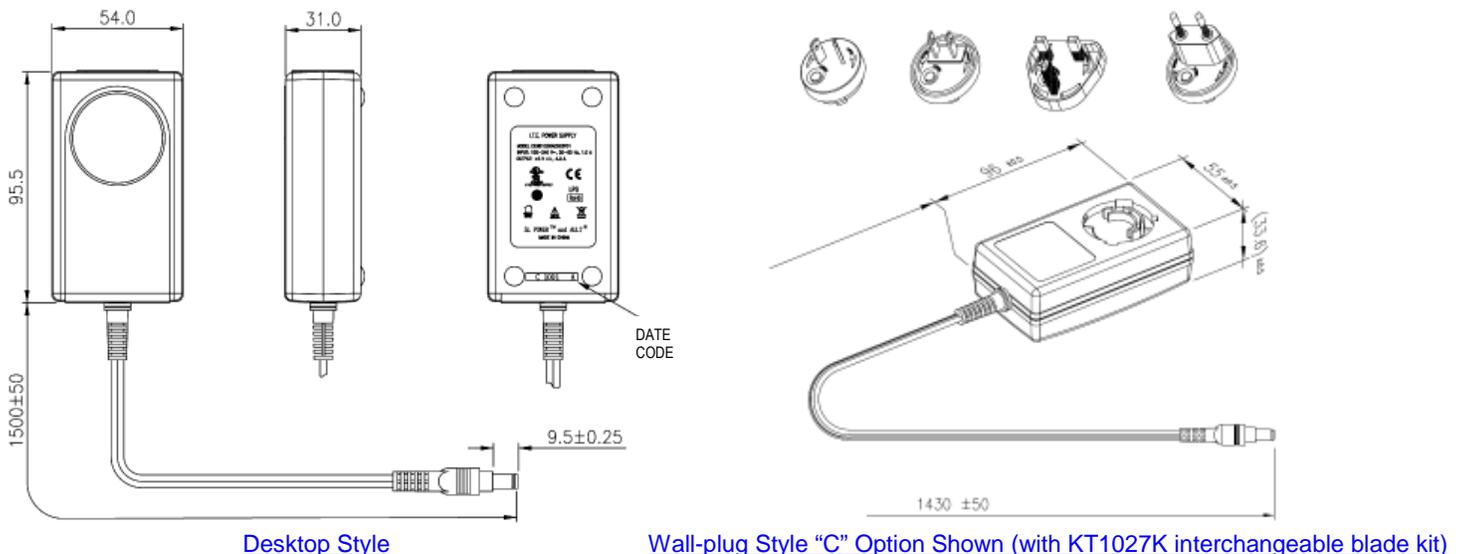


AC Input Receptacle Options

Output Connector

| Desktop | | | Wall-Plug | | | | | |
|--|--|---|-----------|--|--|--|--|--|
| IEC320 - C14 Class I Grounded (F) IEC320 - C18 Class II Ungrounded (Q) IEC320 - C8 Class II "Shaver" (N) | N. America Japan Interchangeable (C) N. America Japan Fixed (B) | Europe Fixed (M) United Kingdom Fixed (G) Australia Fixed (H) | | | | | | |

Outline Drawings



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