

# 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, 2<sup>nd</sup> 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



RoHS V LPS



## 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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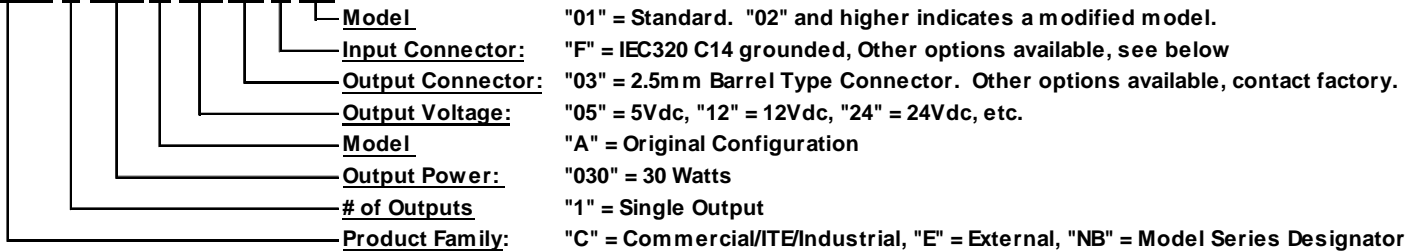
3 Year Warranty

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

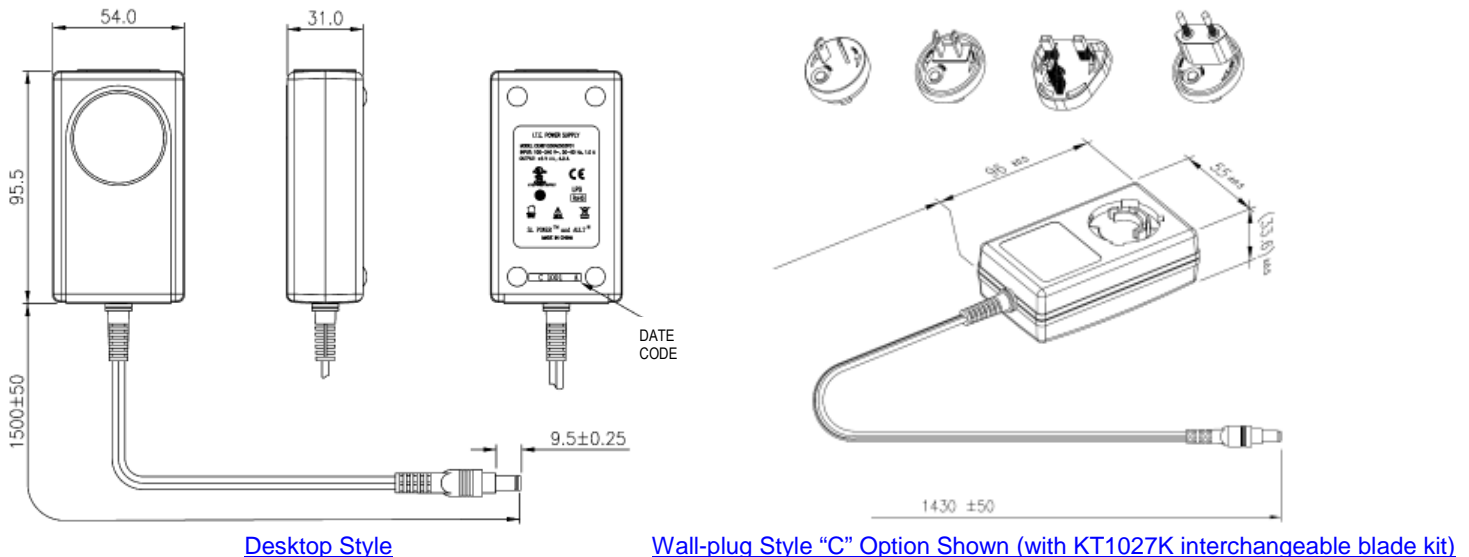


### AC Input Receptacle Options

### 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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