

# CENB1060

Universal Input 60 Watt Series

I.T.E 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, LPS
- Desktop Style
- 5V to 48V Single Output Models, up to 60W
- Modified and Custom Designs Available
- Regulated Output with Low Ripple
- Impact-Resistant Polycarbonate Enclosure
- No Load Power Consumption <0.5W



## 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: 1.5A max	Hold-up Time	18 ms min. @ 115Vac, 60 ms min. @ 240 Vac
Inrush Current	60 A peak, 264 V, cold start	Overload Protection	Hiccup Mode
Input Fuse	2.0A, 250V Internal Primary Current Fuse is provided	Short Circuit Protection	Hiccup Mode
Output Voltage	See chart	Topology	Switching – Fixed Frequency Flyback
Efficiency	Meets EISA2007, CEC Efficiency Level V, EU (EC) No 278/2009 Phase II	Safety Standards	EN/IEC/CSA/UL60950-1, 2nd Edition LPS (9V thru 48V Models)
Output Power	See chart	EMC	See chart on page 2
Ripple and Noise	1% pk-pk max., 20MHz BW	Dielectric Withstand	Input-Output: 5,656Vdc, Input-GND: 1,500 Vac, Output-GND: 500Vdc
Line/Load Voltage Regulation	Line: +/- 1%, Load: +/-5%	Operating Temperature	0° to 40°C, no derating
Transient Response	500µs max., 50% load step, typical	Storage Temperature	-30 to +85°C
Minimum Load	Not required	Relative Humidity	5% to 95%, non-condensing
Case Material	Black 94V0 Polycarbonate	Altitude	0 to 10,000 ft
Case Dimensions	See outline drawing	Output Cable	5V – 9V models: #18AWG (UL2464), 1,200mm, 4 conductor 12V – 15V models: #18AWG (UL2464), 1,500mm, 4 conductor 18V – 48V models: #18AWG (UL2464), 1,500mm, 2 conductor
Weight	400g	Output Connector	5V model: Molex 39-01-2060 or equiv. (Ault #51) Other models: 2.5mm barrel type (Ault #3), center contact positive (+)

## 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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Model Number	Volts (V)	Output Current (max)	Max Watts	Ripple (Vp-p max)
CENB1060A0551F01	5 V	7.00 A	35.0 W	50mV
CENB1060A0903F01	9 V	6.00 A	54.0 W	90mV
CENB1060A1203F01	12 V	5.00 A	60.0 W	120mV
CENB1060A1503F01	15 V	4.00 A	60.0 W	150mV
CENB1060A1803F01	18 V	3.40 A	61.2 W	180mV
CENB1060A2403F01	24 V	2.70 A	64.8 W	240mV
CENB1060A4803F01	48 V	1.30 A	62.4 W	480mV

## Model Number Key

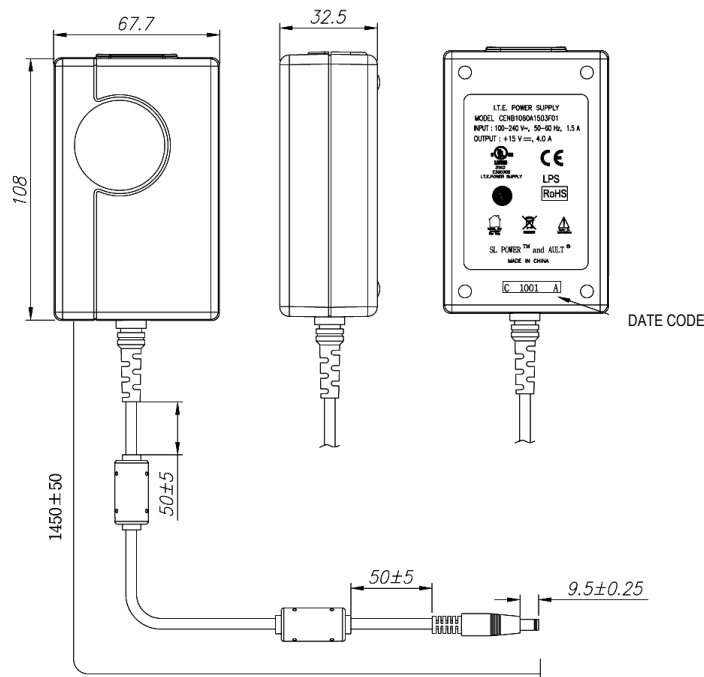
### CENB 1 060 A VV 03 F 01

<b>Model</b>	"01" = Standard. "02" and higher indicates a modified model.
<b>Input Connector:</b>	"F" = IEC320 C14 grounded, Other options available, see next page.
<b>Output Connector:</b>	"03" = 2.5mm Barrel Type Connector. Other options available, contact factory.
<b>Output Voltage:</b>	"05" = 5Vdc, "12" = 12Vdc, "24" = 24Vdc, etc.
<b>Model</b>	"A" = Original Configuration
<b>Output Power:</b>	"060" = 60 Watts
<b># of Outputs</b>	"1" = Single Output
<b>Product Family:</b>	"C" = Commercial/ITE/Industrial, "E" = External, "NB" = Model Series Designator

Input Receptacle Options			Output Connector	Output Connector (5V Model)
IEC320 C14 Grounded (F)	IEC320 C18 Ungrounded (Q)	IEC320 C8 "Shaver" (N)	3	51

Pins 1,4 = (+), Pins 3,6 = (-)

## Outline Drawing



Dimensions are in mm (Cable length is 1200mm on 5V thru 12V models)

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