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With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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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, 2nd 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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Universal 60 Watt Series



I.T.E Switch Mode Power Supply

3 Year Warranty

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

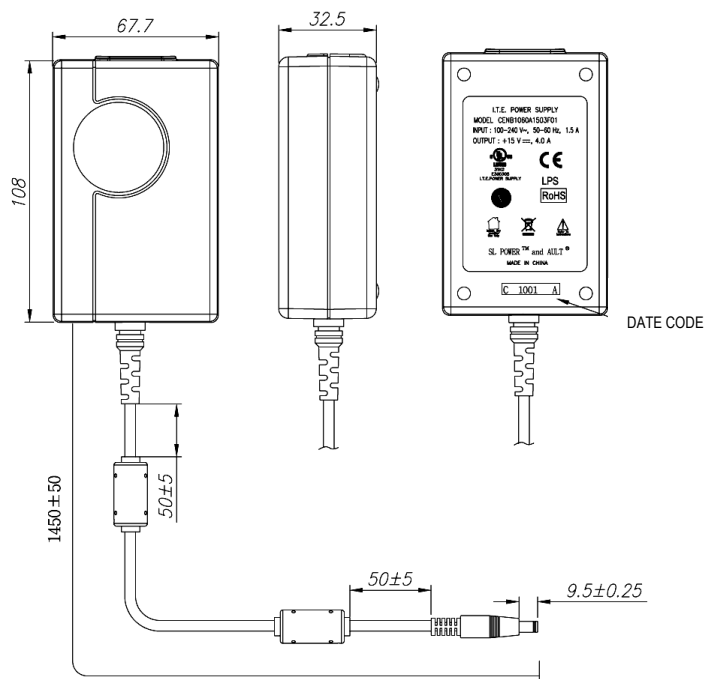
CENB 1 060 A VV 03 F 01

- Model**: "01" = Standard. "02" and higher indicates a modified model.
- Input Connector**: "F" = IEC320 C14 grounded, Other options available, see next page.
- Output Connector**: "03" = 2.5mm Barrel Type Connector. Other options available, contact factory.
- Output Voltage**: "05" = 5Vdc, "12" = 12Vdc, "24" = 24Vdc, etc.
- Model**: "A" = Original Configuration
- Output Power**: "060" = 60 Watts
- # of Outputs**: "1" = Single Output
- Product Family**: "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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