



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

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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# CENB1121

Universal Input 120 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
- Desktop Style
- 12V to 24V Single Output Models, up to 120W
- 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: 2.2 A	Hold-up Time	18 ms min. @ 115Vac, 60 ms min. @ 230 Vac
Inrush Current	60A peak @ 264Vac, cold start	Overload Protection	Hiccup Mode
Input Fuse	3.15A, 250V Internal Primary Current Fuse provided	Short Circuit Protection	Hiccup Mode
Efficiency	Meets International Efficiency Level V	Topology	Switching – Fixed Frequency Flyback
Output Voltage	See chart	Safety and EMC Approvals	EN/IEC/CSA/UL60950-1, 2 <sup>nd</sup> Edition EMC: See chart
Output Power	See chart	Dielectric Withstand	Input-Output: 4,242Vdc Input-GND: 1,500Vac, Output-GND: 500Vdc
Ripple and Noise	1% pk-pk max., 20MHz BW	Operating Temperature	0° to 40°C, no derating
Line/Load Regulation	Excluding Cord: Line: +/- 1%, Load: +/-5%	Storage Temperature	-30 to +85°C
Transient Response	500µs max., 50% load step, typical	Relative Humidity	5% to 95%, non-condensing
Minimum Load	Not required	Altitude	0 to 10,000 ft
Case Material	Black 94V0 Polycarbonate	Output Connections	Cable: 18AWG, 1,500mm, 4 conductor Connector: #51, 6-pin Molex
Case Dimensions	212.4mm x 67.4mm x 45mm, see outline drawing	Weight	700g

## EMI/EMC Compliance

Conducted Emissions	FCC Part 15, Class B, EN55022 Class B, EN55024
Radiated Emissions	FCC Part 15, Class B, EN55022 Class B, EN55024
Voltage Fluctuations	EN61000-3-3, Line Flicker
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 crit. A, 100Vac 60Hz, 40%/5 cycles with 70% full load.
Line Frequency Harmonics	EN61000-3-2, Class A



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Model Number	Volts (V)	Output Current (max)	Max Watts	Ripple (Vp-p max)
CENB1121A1251F01	12 V	10.0 A	120 W	120mV
CENB1121A1551F01	15 V	8.0 A	120 W	150mV
CENB1121A1851F01	18 V	6.6 A	120 W	180mV
CENB1121A2451F01	24 V	5.0 A	120 W	240mV

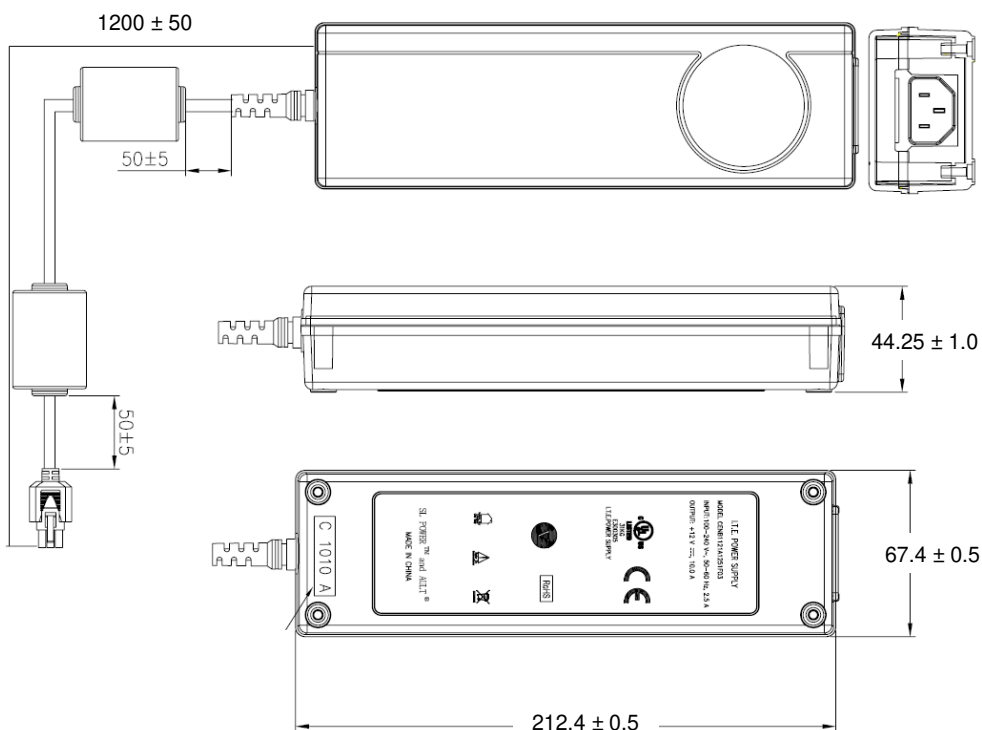
## Model Number Key

**CENB 1 120 A 12 51 F 01**

<p><b>Model</b></p> <p><b>Input Connector:</b></p> <p><b>Output Connector:</b></p> <p><b>Output Voltage:</b></p> <p><b>Model</b></p> <p><b>Output Power:</b></p> <p><b># of Outputs</b></p> <p><b>Product Family:</b></p>	<p>"01" = Standard. "02" and higher indicates a modified model.</p> <p>"F" = IEC320 C14 grounded. Other options available, see below.</p> <p>"51" = Molex 39-01-2060. Other options available.</p> <p>"12" = 12Vdc, "15" = 15Vdc, etc.</p> <p>"A" = Original Configuration</p> <p>"150" = 150 Watts</p> <p>"1" = Single Output</p> <p>"C" = Industrial/ITE, "E" = External, "NB" = Model Series Designator</p>
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Input Connector Options	DC Output Connector		
	Output Connector Options	Pinout	Mating Connector
<p><b>Class I (grounded) Inlet:</b></p> <p>"F" = IEC60320 C14</p> <p><b>Class II (ungrounded) Inlets:</b></p> <p>"N" = IEC60320 C8</p> <p>"Q" = IEC60320 C18</p>	<p>"51" = 6 pin, Molex 39-01-2060 or equiv.</p>	<p>Pins 1,4: +Vout</p> <p>Pins 3,6: -Vout</p> <p>Pins 2,4: NC</p>	<p>Molex 39-01-3063 or equiv.</p>

## Outline Drawing



Dimension is in mm.