



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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# CENB1090

Universal Input 90 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 48V Single Output Models, up to 90W
- 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	100Vac: 2.0A	Hold-up Time	18 ms min. @ 115Vac, 60 ms min. @ 230 Vac
Inrush Current	60A peak @ 264Vac	Overload Protection	Hiccup Mode
Input Fuse	3.15A, 250V Internal Primary Current Fuse is 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: 1,500 Vac, Output-GND: 500Vdc
Ripple and Noise	1% pk-pk max., 20MHz BW	Operating Temperature	0° to 40°C, no derating
Line/Load Regulation	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: Ault #3, 2.5mm barrel or #51, 6-pin Molex. See drawings.
Case Dimensions	129 x 77 x 40mm. See outline drawing	Weight	600g

## 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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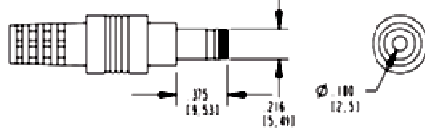
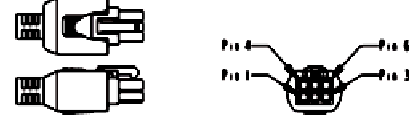
3 Year Warranty

Model Number	Volts (V)	Output Current (max)	Max Watts	Ripple (Vp-p max)
CENB1090A1251F01	12 V	7.0 A	84.0 W	120mV
CENB1090A1503F01	15 V	6.0 A	90.0 W	150mV
CENB1090A1803F01	18 V	5.0 A	90.0 W	180mV
CENB1090A2403F01	24 V	3.75 A	90.0 W	240mV
CENB1090A4803F01	48 V	1.9 A	90.0 W	240mV

## Model Number Key

**CENB 1 090 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 below
Output Connector:	"03" = 2.5mm Barrel Type Connector, "51" = 6 pin Molex. Other options available.
Output Voltage:	"05" = 5Vdc, "12" = 12Vdc, "24" = 24Vdc, etc.
Model	"A" = Original Configuration
Output Power:	"090" = 90 Watts
# of Outputs	"1" = Single Output
Product Family:	"C" = Commercial/ITE/Industrial, "E" = External, "NB" = Model Series Designator

Input Receptacle	Output Connector	Output Connector (12V models)
 IEC320 C14 - Class I Grounded (F)	<b>3</b> 	<b>51</b> 

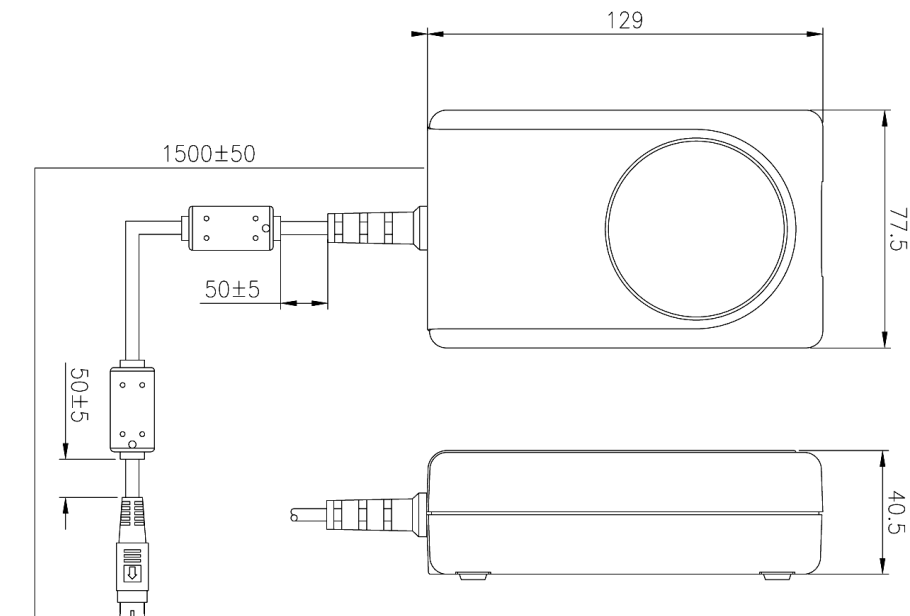
"#3" Connector is 2.5mm barrel type, center (+)

"#51" Connector is Molex 39-01-2060 or equivalent.

"51" Connector Pinout: Pins 1, 4: (+), Pins 3, 6: (-). Mate = Molex 39-01-2061 or equiv.

## Outline Drawing

DIN connector shown. Standard connector is either "#3" or "#51" connector. See above.



Dimensions are in mm