



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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CENT1120

Universal 120 Watt Series



ITE Switch-Mode Power Supply

3 Year Warranty

- Universal Input 100Vac – 240Vac
- Single Output Models up to 120W
- Desktop Style/Non-vented case
- Efficiency Level IV
- Power Factor Correction
- Certified to UL/ EN60950
- IPX1 Rated Enclosure
- Complies with EMI/RFI Regulations
- Modified and Custom Designs Available



International Safety Standard Approvals



Specifications

AC Input	90-264Vac, 47-63 Hz single phase	MTBF	> 100K hours (calculated, 25°C at full load)
Input Current	90VAC: 2A, 180VAC: 1.0A	Hold-up Time	16.7 ms min. @ 110VAC
Inrush Current	Inrush Current Protection Provided	Overvoltage Protection	Latching
Input Fuse	Internal Primary Current Fuse Provided	Overload Protection	>120% of full rated load, Hiccup Mode
Earth Leakage Current	Input-GND: <3.5mA, Normal State Output-GND: <0.25mA, Normal State	Short Circuit Protection	Hiccup Mode, auto-recovery
Efficiency	88% typical	Overtemperature Protection	Latching
No Load Power	<0.5W	Output Voltage	See chart
Input Harmonics	Meets IEC61000-3-2, class D	Safety Standards	IEC/EN/UL60950
Transient Response	5ms return to within 1%, 50% load step. 0.2A/sec slew rate. Maximum deviation is 5%	Topology	Two-Stage Conversion and Quasi-Resonant Flyback
Line/ Load Voltage Regulation	Line: +/-2.0% max., Load: +/-5% max	Isolation	Input-Output: 3000VAC, Input-GND: 1500VAC, Output-GND: 500VDC
Minimum Load	Not required	Operating Temperature	0° to 40°C with no derating
Ripple and Noise	1% pk-pk max., 20MHz BW, differential mode	Temperature Coefficient	0.3% per °C, maximum
Turn-on Time	3 sec. maximum @ 115VAC	Storage Temperature	-20°C to +85°C
Case Material	Black 94V-0 rated Polycarbonate	Relative Humidity	5% to 95%, non-condensing
Case Dimensions/Output Connections	See chart and outline drawing	Altitude	0 to 10,000 ft, operating; -500 to 40,000 ft, non-operating

Model Number Key

CENT 1 120 A VV 51 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:	"51" = 6 pin Molex. Other options available.
Output Voltage:	"09" = 9Vdc, "12" = 12Vdc, "24" = 24Vdc, etc.
Model	"A" = Original Configuration
Output Power:	"120" = 120 Watts
# of Outputs	"1" = Single Output
Product Family:	"C" = Commercial/ITE/Industrial, "E" = External, "NT" = New Technology

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OUTPUT PARAMETERS

Model Number	Output Volts	Output Current (max)	Max Watts	Ripple (Vp-p max)
CENT1120A0951F01	9V	9.00A	81W	90mV
CENT1120A1251F01	12V	9.17 A	120W	120mV
CENT1120A1551F01	15V	7.33 A	120W	150mV
CENT1120A1851F01	18V	6.67 A	120W	180mV
CENT1120A2451F01	24V	5.00 A	120W	240mV
CENT1120A4851F01	48V	2.50 A	120W	480mV

Note: Ripple and Noise is measured with 0.1µF ceramic and 10µF electrolytic capacitor in parallel, connected at the measurement point.

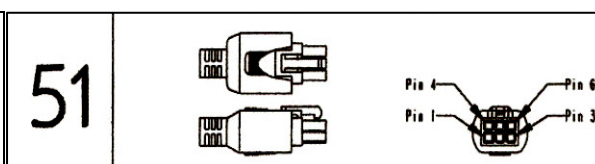
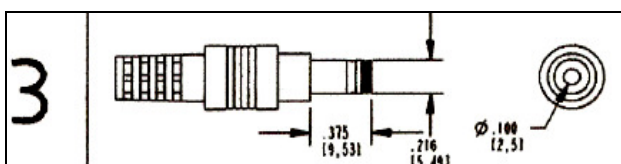
EMI/EMC Compliance

Conducted Emissions	EN55022 Class B
Radiated Emissions	EN55022 Class B, FCC Part 15, Class B.
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, performance criteria A
Voltage Dip Immunity	EN61000-4-11, 70% UT for 10mS, 40% UT for 100mS, <5% UT for 5000mS, performance criteria A, B
Line Flicker	EN61000-3-3
Line Frequency Harmonics	EN61000-3-2, Class D

Input Receptacle

Output Connector (12V model)

Output Connector (All other models)

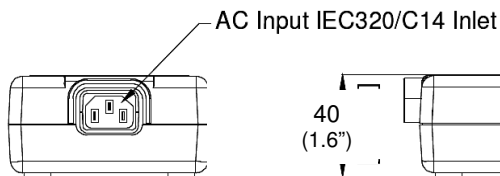
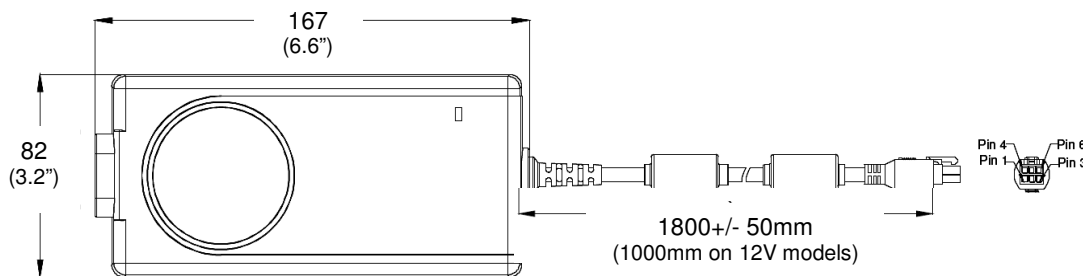


IEC320, C14 – Class I

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

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

Outline Drawing (#51 connector shown)



LEADWIRE HOOK-UP		
PIN#	COLOR	
PIN 1	RED	+V OUT
PIN 3	GREEN	GND
PIN 4	WHITE	+V OUT
PIN 6	BLACK	GND