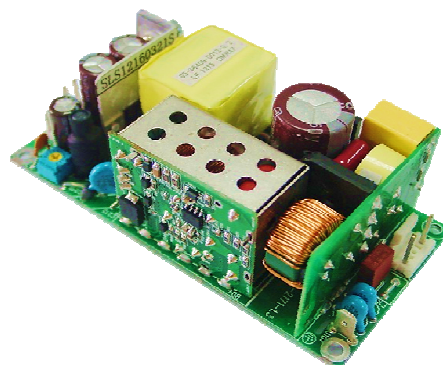


- 2" x 4" x 1.3" Package
- For 1U Applications
- 150Watts with air & 100Watts Convection Cooled
- Universal Input 90-264 VAC
- Approved to EN/IEC/UL60950-1 2nd Edition
- Power Fail/Output good signal
- CE Compliant (LVD, RoHS)
- Optional Chassis/Cover



International Safety Agency Approvals



Specifications

All Specifications are typical at nominal input, full load at 25°C unless otherwise stated.

AC Input	100-240Vac +/- 10%, 47-63 Hz single phase 120-370 Vdc	Turn On Time	Less than 2 sec. @115Vac (inversely proportional to input voltage and thermistor temperature)
Input Current	115Vac: 2A, 230Vac: 1A	Hold-up Time	>12mSec at full load and 120VAC
Inrush Current	264Vac, cold start: will not exceed 50A	Signals	AC Power Fail/DC OK
Input Fuses	F1, F2: 4A, 250VAC fuses provided on all models	Overload Protection	Hiccup Mode
Earth Leakage Current	<750µA@264Vac, 60Hz, NC	Short Circuit Protection	No damage to the supply
Efficiency	88% typical at 115V	PFC Switching Frequency	65kHz typical
Output Power	150W continuous with 200lfm airflow, 100W convection cooled – See chart for specific voltage model ratings	Overvoltage Protection	OVP firing reduces output voltage to <50% of nominal in <50mS. See chart for trip range
Transient Response	50% load step. $\Delta I/\Delta t < 0.2A/\mu S$ Max Volt Deviation = 3%	Isolation	Input-Output: 4000Vac Input-Ground: 1800Vac, Output-Ground: 500Vac
Ripple and Noise	See chart	Operating Temperature	-10 to +70°C Derate output power linearly to 50% at 70°C
Output Voltage	See chart	Storage Temperature	-40 to +85°C
Voltage Adjustability	+/- 5% from nominal	Operating Altitude	-500 to 10,000 ft (approved to 3,000M)
Minimum Load	Not required	Non-operating Altitude	-500 to 40,000 ft
Total Regulation	+/- 5%. See chart	Relative Humidity	5% to 95%, non-condensing
Vibration	Operating: 0.003g ² /Hz, 1.5g _{rms} overall, 3 axes, 10 min/axis Non-Operating: 0.026 g ² /Hz, 5.0g _{rms} overall, 3 axes, 1 hr/axis	Shock	Operating: Half-sine, 20 g _{pk} , 10 ms, 3 axes, 6 shocks total Non-Operating: Half-sine, 40 g _{pk} , 10 ms, 3 axes, 6 shocks total
Dimensions	W: 2.0" x L: 4.0" x H: 1.3". Weight: 183g	ITE Safety Standards	EN/CSA/UL/IEC 60950-1, 2nd Edition

Model Number Key

CINT 1 150 X 12 06 K 01

Model:	"01" = Standard Model, 02 and higher indicates a modified model.
Input Connector:	"K" = 3 pin Header, Class I input
Output Connector:	"06" = Output Connector - 6 pin Header
Output Voltage:	"12" = 12Vdc, "24" = 24Vdc, etc.
Configuration:	"A" = First Generation
Output Power:	"150" = 150 Watts Output Power
# of Outputs:	"1" = Single Output
Product Family:	"C" = ITE/Industrial, "I" = Internal, "NT" = New Technology

Models & Output Parameters

Model Number	Volts (V)	Convection ¹	With 200LFM air	Ripple & Noise ²	Total Regulation	OVP Threshold
CINT1150A1206K01	12V	8.33A	12.50A	0.5%RMS, 1.2% pk-pk	±5%	14.0 ± 1.1V
CINT1150A2406K01	24V	4.17A	6.25A	0.5%RMS, 1% pk-pk	±5%	28.0 ± 2.5V
CINT1150A4806K01	48V	2.08A	3.13A	0.5%RMS, 1% pk-pk	±5%	55.0 ± 4.0V
CINT1150A5606K01	56V	1.79A	2.68A	0.5%RMS, 1% pk-pk	±5%	<59.9V

Notes: 1. Maximum output power is 95 Watts for input voltage of 90-105VAC at 50°C convection. For input voltage of 105Vac or more, the total power is 100 Watts at 50°C convection.

2. Measured with noise probe directly across output terminals, and load terminated with 0.1µF ceramic and 10µF low ESR capacitors.

EMC Compliance

Conducted Emissions	EN55011/22 Class B, FCC Part 15, Subpart B, Class B
Radiated Emissions	EN55011/22 & FCC Part 15, Subpart B, Class A with 6dB margin
Static Discharge Immunity	EN61000-4-2, Criteria A, 6kV Contact Discharge, 8kV air discharge
Radiated RF Immunity	EN61000-4-3, 3V/m. Criteria A
EFT/Burst Immunity	EN61000-4-4, 2kV/5kHz, Criteria A
Line Surge Immunity	EN61000-4-5, 1kV differential, 2kV common-mode, Criteria A
Conducted RF Immunity	EN61000-4-6, 3Vrms, Criteria A
Power Frequency Magnetic Field Immunity	EN61000-4-8, 3A/m, Criteria A
Voltage Dip Immunity	EN61000-4-11, loading is 70% of 100 watts with 100 Vac input. 0% Vnominal, 0.5cycle, 40% Vnominal, 5 cycles, 70% Vnominal, 25 cycles, Criteria A.
Line Harmonic Emissions	EN61000-3-2, Class A, B, C & D
Flicker Test	EN61000-3-3, Complies (dmax<6%)

Signals

AC Power Fail/DC OK:	During normal operations stays high	Power Fail:	Goes LOW with 5 mS warning before loss of output power due to AC failure
		DC OK:	Open collector logic signal goes and stays HIGH 100mS – 500mS after DC output reaches regulation

Mechanical Drawing and Input/Output Connections

