



Features

- 3" x 5" x 1.3" Package
- 200W with 100LFM Air
- 180W Convection Cooled
- Class B Conducted EMI
- Fits 1U Applications
- Universal Input 90-264 Vac
- Approved to CSA/EN/IEC/UL60950-1, 2nd Edition
- Efficiency 90% typical
- 3 Year Warranty
- RoHS Compliant



Description

A power-packed, highly efficient AC to DC power supply designed for industrial and ITE applications. These models provide 180 Watts convection cooled, 200 Watts with moving air. The small heat footprint allows simple thermal design of systems which use this product. All models are CE marked to low voltage directive and approved to ITE standards of EN60950-1, 2nd edition.

Model Selection

Model Number	Volts	Output Current		Minimum Load	Ripple & Noise**	Total Regulation	OVP Threshold***
		w/100LFM air	Convection*				
CINT1200A1275K01	12V	16.7A	15.0A	0A	120mV pk-pk	±3%	14.0 ± 1.1V
CINT1200A1575K01	15V	13.3A	12.0A	0A	150mV pk-pk	±3%	18.5 ± 1.2V
CINT1200A1875K01	18V	11.1A	10.0A	0A	180mV pk-pk	±3%	21.5 ± 2.0V
CINT1200A2475K01	24V	8.33A	7.50A	0A	240mV pk-pk	±3%	29.0 ± 2.5V
CINT1200A2875K01	28V	7.14A	6.40A	0A	280mV pk-pk	±3%	33.5 ± 2.5V
CINT1200A3275K01	32V	6.25A	5.62A	0A	320mV pk-pk	±3%	36.0 ± 3.0V
CINT1200A3675K01	36V	5.55A	5.00A	0A	360mV pk-pk	±3%	41.0 ± 3.0V
CINT1200A4875K01	48V	4.17A	3.75A	0A	480mV pk-pk	±3%	56.0 ± 3.0V

Notes: * Total convection power is 180 Watts.

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

General Specifications

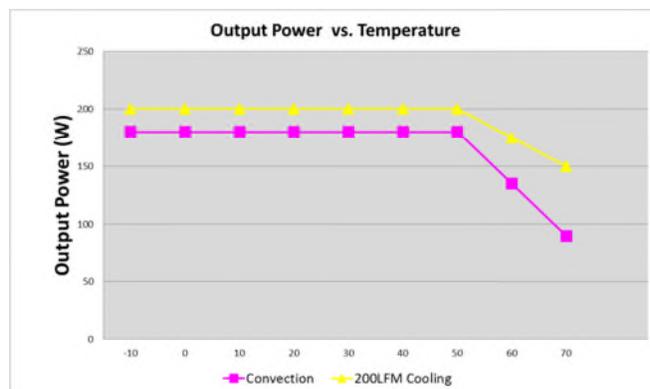
AC Input	100-240Vac, ±10%, 47-63Hz, 1Ø 120-370Vdc	Turn On Time	Less than 3 sec. @115Vac, Full Load
Input Current	115Vac: 1.8A, 230Vac: 0.9A	Hold-up Time	16mS at 200W, 120Vac/60Hz

Specifications (continued)

Inrush Current	264Vac, cold start: will not exceed 55A	Overtemperature Protection	Sensing transformer temperature, 165°C at full load, latching type, requires input power recycling to reset.
Input Fuses	F1, F2: 3.15A, 250Vac fuses provided on all models	Overload Protection	120 to 150% of rating, Hiccup Mode
Earth Leakage Current	<500µA@264Vac, 60Hz, NC; <1mA SFC	Short Circuit Protection	Hiccup Mode, auto recovery.
Efficiency	88% typical	Overvoltage Protection	OVP latch, see models chart for trip range.
Output Power	200W continuous, with 100 lfm airflow, 180W convection cooled – See chart for specific voltage model ratings.	Switching Frequency	PFC: Fixed, 65kHz Main Converter: Variable 35-200kHz, 65-70kHz at full load.
Transient Response	500µS typical, return to 0.5% of nominal, 50% load step. $\Delta i/\Delta t$: <0.2A/µS. Max Voltage Deviation = 3%	Isolation	Input-Output: 4000Vac Input-Ground: 1800Vac Output-Ground: 1500Vac
Ripple and Noise	0.5%rms, 1% pk-pk, see chart.	Operating Temperature	-10°C to +70°C Start Up at -40°C, full load
Output Voltage	See chart	Temperature Derating	Derate output power linearly above 50°C to 50% at 70°C
Voltage Adjustability	+/-5% from nominal	Storage Temperature	-40°C to +85°C
Minimum Load	Not required	Altitude	Operating: -500 to 10,000 ft. Non-operating: -500 to 40,000 ft.
Total Regulation	+/- 3% combined line, load and initial setting.	Relative Humidity	5% to 95%, non-condensing
Vibration	Operating: 0.003g ² /Hz, 1.5grms overall, 3 axes, 10 min/axis Non-Operating: 0.026g ² /Hz, 5.0grms overall, 3 axes, 1 hr/axis	Shock	Operating: Half-sine, 20gpk, 10ms, 3 axes, 6 shocks total Non-Operating: Half-sine, 40 gpk, 10 ms, 3 axes, 6 shocks total
Dimensions	W: 3.0" x L: 5.0" x H: 1.3"	Safety Standards	EN/CSA/UL/IEC 60950-1, 2nd Edition
Weight	325g	MTBF	405,000 hours, 25°C, 110Vac

Output vs. Temperature Derating Curve

180W convection cooled and 200W continuous with 100 LFM airflow, derate output power to 50% at 70°C.

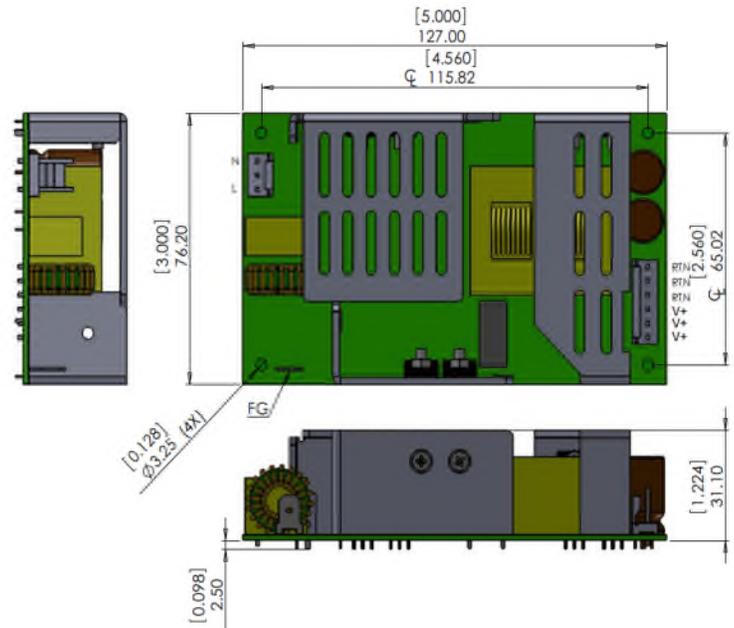


EMI/EMC Compliance

Conducted Emissions	EN55011/22 Class B, FCC Part 15, Subpart B, Class B
Radiated Emissions	EN55011/22 Class A, FCC Part 15, Subpart B, Class A w/6db margin
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, 100%, 10ms; 30%, 275ms; 60%, 100ms; Performance Criteria A, A, & A at 70% load.
Line Harmonic Emissions	EN61000-3-2, Class A, B, C, & D
Flicker Test	EN61000-3-3, Complies (dmax<6%)

Mechanical Drawing

- Notes:**
1. All dimensions in inches (mm), tolerance is +/-0.000".
 2. Mounting holes should be grounded for EMI purposes.
 3. FG is safety ground connection.
 4. The power supply requires mounting on metal standoffs 0.20" (5mm) in height, min.



Connector Information

Input Connector J100	Ground (FG)	DC Output Connector J300	
PIN 1) AC LINE PIN 2) EMPTY PIN 3) AC NEUTRAL	0.25" FASTON TAB	Term. 1,2,3: RTN Term. 4,5,6: +Vout	
Mating Connector: AMP Molex 640250-3 Pins: 640252-2	Mating Connector: Molex 01-90020001	Mating Connector: AMP 640250-6 Pins: 640252-2	

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Тел: +7 (812) 336 43 04 (многоканальный)

Email: org@lifeelectronics.ru