

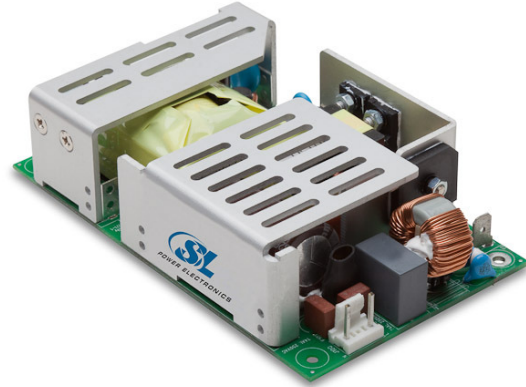
# CINT1200

200W Single Output Series

ITE Power Supply



- 3" x 5" x 1.3" Package
- Up to 200 W of AC-DC Power
- 180Watts Convection Cooled
- 200Watts with 100LFM Air Flow
- Universal Input 90-264 Vac
- Meets Class B EMI, Conducted
- Fits 1U Applications
- Approved to EN/CSA/UL/IEC60950-1, 2<sup>nd</sup> Edition
- Efficiency up to 90%
- CE Compliant (LVD, RoHS)
- Optional Chassis/Cover



## Specifications

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

<b>AC Input</b>	100-240Vac +/- 10%, 47-63 Hz single phase 120-370 Vdc	<b>Turn On Time</b>	Less than 3 sec. @115Vac & Full Load
<b>Input Current</b>	115Vac: 1.8A, 230Vac: 0.9A	<b>Hold-up Time</b>	>16 mSec at 200W, 120Vac/60 Hz
<b>Inrush Current</b>	264Vac, cold start: will not exceed 55A	<b>Overload Protection</b>	120 to 150% of rating, cycling type
<b>Input Fuses</b>	F1, F2: 3.15A, 250VAC fuses provided on all models	<b>Short Circuit Protection</b>	No damage to supply, auto recovery
<b>Earth Leakage Current</b>	<500µA@264V, 60Hz, NC; <1mA SFC	<b>Overvoltage Protection</b>	OVP latch at 110 to 130% of output voltage
<b>Efficiency</b>	88% typical for 12Vdc and 115Vac	<b>Isolation</b>	Input-Output: 4000Vac Input-Ground: 1800Vac, Output-Ground: 700Vdc
<b>Output Power</b>	180W convection cooled 200W with 100 LFM	<b>Operating Temperature</b>	-10 to +70°C convection Derate output power linearly to 50% between 50 and 70°C
<b>Transient Response</b>	500µs typ. for return to within 0.5% of nominal, 50% load step. $\Delta i/\Delta t < 0.2A/\mu S$ . Max Volt Deviation = 3%	<b>Over Temperature Protection</b>	Sensing transformer temperature, 165°C at full load, latching type, requires power cycling
<b>Ripple and Noise</b>	1% pk-pk, measured directly across output terminals, load terminated with 0.1µF ceramic and 10µF low ESR capacitors	<b>Storage Temperature</b>	-40 to +85°C
<b>Output Voltage</b>	See chart	<b>Operating Altitude</b>	-500 to 10,000 ft
<b>Minimum Load</b>	Not required	<b>Non-operating Altitude</b>	-500 to 40,000 ft
<b>Total Regulation</b>	+/- 3% combined line, load, and initial setting	<b>Relative Humidity</b>	5% to 95%, non-condensing
<b>Vibration</b>	Operating: 0.003g <sup>2</sup> /Hz, 1.5g <sub>rms</sub> overall, 3 axes, 10 min/axis Non-Operating: 0.026 g <sup>2</sup> /Hz, 5.0g <sub>rms</sub> overall, 3 axes, 1 hr/axis	<b>Shock</b>	Operating: Half-sine, 20 g <sub>pk</sub> , 10 ms, 3 axes, 6 shocks total Non-Operating: Half-sine, 40 g <sub>pk</sub> , 10 ms, 3 axes, 6 shocks total
<b>Switching Frequency</b>	PFC: Fixed at 65kHz Main converter: 50–120kHz, typical 70kHz at full load	<b>Air Flow Dir</b>	From AC input end towards to DC output end
<b>Dimensions</b>	W: 3.0" x L: 5.0" x H: 1.3", Weight: 325g	<b>ITE Safety Standards</b>	EN/CSA/UL/IEC 60950-1, 2nd Edition

## Model Number Key

CINT 1 200 X 12 75 K 01

- 01 = Standard Model, 02 and higher indicates a modified model.
- "K" = Input Connector - 3 pin header; "C" = 2 pin header for Class II input
- "75" = Output Connector - 6 pin header
- Output Voltage: "12" = 12V output, "24" = 24V output, etc.
- Model Configuration: "A" = Class I Input; "B" = Class II Input (no ground); "C" = Optional chassis/cover
- Output Power (Watts) - "200" = 200W
- # of Outputs
- Product Family: "C" = ITE, "I" = Internal, "NT" = New Technology

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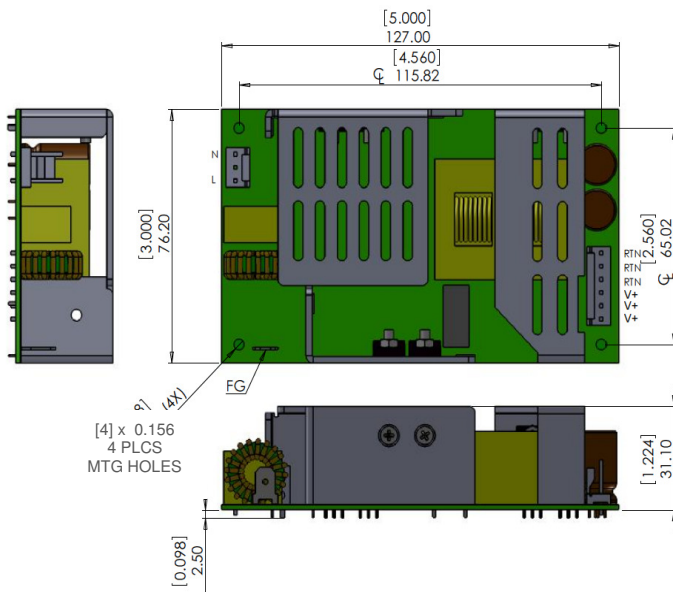


Model Number	Volts (V)	Minimum Load	Output Parameters		Total Regulation	OVP Threshold
			Output Current	Convection/with 100 LFM		
CINT1200A1275K01	12 V	0 A	15.00A/16.66A		±3%	14.0 ± 1.1V
CINT1200A1575K01	15 V	0 A	12.00A/13.33A		±3%	18.5 ± 1.2V
CINT1200A1875K01	18 V	0 A	10.00A/11.11A		±3%	21.5 ± 2.0V
CINT1200A2475K01	24 V	0 A	7.50A/8.33A		±3%	29.0 ± 2.5V
CINT1200A2875K01	28 V	0 A	6.40A/7.14A		±3%	33.5 ± 2.5V
CINT1200A3275K01	32V	0 A	5.62A/6.25A		±3%	36.0 ± 3.0V
CINT1200A3675K01	36 V	0 A	5.00A/5.55A		±3%	41.0±3.0V
CINT1200A4875K01	48 V	0 A	3.75A/4.17A		±3%	56.0 ± 3.0V

## EMI/EMC Compliance

Conducted Emissions	EN55011 Class B, FCC Part 15, Subpart B, Class B
Radiated Emissions	EN55011 Class B, FCC Part 15, Subpart B, Class A with over 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, 5% Vnom: 0.5cycle; 40% Vnom: 5 cycles, 70% Vnom: 25 cycles, Criteria A
Line Harmonic Emissions	EN61000-3-2, Class A, B, C & D
Flicker Test	EN61000-3-3, Complies (dmax<6%)

## Mechanical Drawings and Connector Information



### Input Connector – J100 (AMP 64137-1) Mating Connector Molex 90-50-3031 Pins: 08-50-0105

Pin 1	AC Line
Pin 2	N.C.
Pin 3	AC Neutral

### Output Connector – J300 (AMP 640445) Mating Connector: Molex 90-50-3041 Pins: Molex 08-50-0105

Pin	Connection
1	RTN
2	RTN
3	RTN
4	+V1
5	+V1
6	+V1

#### Notes:

- Dimensions are in mm (inches with +/- 0.000 tolerance)
- Metal standoffs with 0.2" (5mm) height are required for mounting
- FG is around connection-J101 P/N 1285 AMP

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