



Features

- 3 x 5 x 1.5 inches
- Wide range AC input
- Approval to EN60601 3rd Edition
- EMI Class B
- CE marked to LVD
- Class 1 & Class 2 options
- Meets standard IEC60601-1-2 : 2014 (4th Edition)

	Electrical Specification	ntions	
nput Voltage	90-264 VAC/120-390 VDC, Unive	rsal	
Input Frequency	47-63 Hz		
Input Current	120 VAC: 3.2 A max.	230 VAC: 1.65 A max.	
No Load Power	0.8 W		
Inrush Current	120 VAC: 35 A max.	230 VAC: 65 A max.	
Leakage Current	120 VAC: < 125 μA	230 VAC: < 250 μA	
Efficiency	120 VAC: 88% typical	230 VAC: 92% typical	
Hold-up Time	120 VAC: 10 ms	230 VAC: 10 ms	
Power Factor	120 VAC: 0.98	230 VAC: 0.95	
Output Power	200 to 325 W		
Line Regulation	+/-0.5%		
Load Regulation	+/-2%		
Transient Response	< 10%, 50% to 100% load change	, 50 Hz, 50% duty cycle, 0.1 A/μs,	
	recovery time < 5 ms		
Rise Time	< 100 ms		
Set Point Tolerance	+/-1%		
Output Adjustability	+/-3%		
Over Current Protection	110 to 150%		
Over Voltage Protection	110 to 150%, autorecovery		
Short Circuit Protection	Short term, autorecovery		
Over Temperature Protection	110°C primary heat sink, autorecovery		
Switching Frequency	PFC converter: Fixed, 80 kHz typical Resonant converter: Variable, 35–250 kHz; 90 kHz typical		
Operating Temperature	-20 to +70°C, refer derating curve	e; -20 to 0°C, start-up is guaranteed	
Storage Temperature	-40 to +85°C		
Relative Humidity	95% Rh, noncondensing		
Altitude	Operating: 10,000 ft.; Nonoperating: 40,000 ft.		
MTBF	1.77m Hours, Telcordia -SR332-issue 3		
Isolation Voltage	Min. 5900 VDC between input to output		
Cooling	Convection: 140W max (5V model)		
	200W max (12V, 15V, 24V, 30V and 48V models)		
	With 300LFM: 200W max (5V model)		
	300W max (12V and 15V models)		
	325W max (24V, 30V and 48V models)		

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Model Number	Voltage	Max. Load (Convection)	Max. Load (300 LFM)	Min. Load	Ripple ²
LT300-1000-3	5 V	28.0 A	40.0 A	0.0 A	2%
LT300-1001-3	12 V	16.67 A	25.0 A	0.0 A	2%
LT300-1002-3	15 V	13.33 A	20.0 A	0.0 A	2%
LT300-1003-3	24 V	8.33 A	13.54 A	0.0 A	2%
LT300-1004-3	48 V	4.17 A	6.77 A	0.0 A	2%
LT300-1005-3	30 V	6.67 A	10.83 A	0.0 A	2%
LT300 – CK metal cover kit accessory					

Connectors					
J1	Pin 1	AC LINE			
	Pin 2	AC NEUTRAL			
Spade Connector (J4)		EARTH			
(Class 1 product only)					
J2	Pin 1	RTN			
	Pin 2	V1			
J3	Pin 1	REMOTE ON/OFF			
	Pin 2	RTN			
	Pin 3	VFAN (+12 V/0.5 A)			
	Pin 4	-VE REMOTE SENSE			
	Pin 5	VSTBY (+5 V/2 A, +/-5%)			
	Pin 6	+VE REMOTE SENSE			
	Pin 7	RTN			
	Pin 8	POWER GOOD			

Notes

- 1. Peak current rating on main output is 120% of max., lasting < 30 s with a maximum 10% duty cycle.
- 2. Ripple is peak to peak with 20 MHz bandwidth an (Tantalum capacitor) in parallel with a Rabapacitor at rated line voltage and load ranges.
- 3. Class 2 means without input Earth pin. Replaceffix with I suffix to order Class 2 product.
- 4. Combined output power of main output, fan supply and standby supply shall not exceed max. power rating.
- 5. Standby output voltage tolerance including set point accuracy, line and load regulation Ripple and noise is less than 5%.
- 6. Fan supply output voltage tolerance including set point accuracy, line and load regulation band. Ripple and noise is less than 10%.
- 7. Class 2 product meets Class A limit line for conducted emission.
- 8. Specifications are for nominal input voltage, 25°C unless otherwise stated.
- 9. PSU is supplied with J3, pihand pin2 shorted to enable main output without remotificature.
- 10. Derate output power linearly to 80% from 90 VAC to 80 VAC input.
- 11. Power good signal cannot be used as a current source. Internal pull up resistor from PG signal to 5V is 10K. It is recommended to use external transistor if intended to source current.
- 12. The de-rating curves are valid for input voltages of 115VAC to 264VAC. Below 115VAC to 90VAC the convection rating is 180 Watts maximum.
- 13. When used in Cover Kit, de-rate output power to 70 % under all operating conditions.

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	Mechanical Specifications			
AC Input Connector (J1) Molex: 26–60–4030				
	Mating: 09-50-3031; Pins: 08-50-0106			
EARTH (J4)	Molex: 19705-4301			
Mating: 190030001				
DC Output Connector (J2)				
	Mating: Designed to accept Ring Tongue Terminal AMP: 8-31886-1,			
	wherein one 16 AWG(max) wire can be crimped.			
	Note: One Ring Tongue Terminal with 16 AWG is recommended for current upto 11A only.			
	Use multiple tongue terminals with wire for more current.			
Signal Connector (J3)	Molex: 22-23-2081			
	Mating: 22-01-2087; Pins: 08-50-0113			
Dimensions	3.0 x 5.0 x 1.5 inches			
	(76.2 x 127.0 x 38.0 mm)			
Weight	450 g			
	EMC			
Parameter	Conditions/Description	Criteria		
Conducted Emissions	EN 55011-B,CISPR22-B, FCC PART15-B	Pass		
Radiated Emissions	EN 55011 B	Pass		
Input Current Harmonics	EN 61000-3-2	Class D		
Voltage Fluctuation and Flicker	EN 61000-3-3	Pass		
ESD Immunity	EN 61000-4-2	Level 4, Criterion A		
Radiated Field Immunity	EN 61000-4-3	Level 3, Criterion A		
Electrical Fast Transient Immunity	EN 61000-4-4	Level 3, Criterion A		
Surge Immunity	EN 61000-4-5	Level 3, Criterion A		
Conducted Immunity	EN 61000-4-6	Level 3, Criterion A		
Magnetic Field Immunity	EN 61000-4-8	Level 4, Criterion A		
Voltage dips, interruptions	EN 61000-4-11	Criterion A & B		
	Safety			
CE Mark	Complies with LVD Directive			
Approval Agency	Nemko			
Safety Standard(s)	EN60601-1, IEC 60601-1 (ed.3), ANSI / AAMI ES 60601 - 1, CSA C22.2 No. 60601-1			
Safety File Number(s)	Nemko: P15220608; CB: N090008: UL : E173812			
	Signal			
Power Good Signal	TTL signal goes high after main output is within regulation band, delay is 0.1 to 0.3 s (see note 11)			
Remote Sense	Compensates for 200 mV drop			
Remote on/off	To turn on PSU short remote pin to ground			

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