200 Watt Industrial



Features

- 5 x 3 x 1.5 inches form factor
- 200 W with forced-air cooling
- High efficiency > 88%
- 12 V fan output
- 5 V standby output
- Remote sense
- Output voltage adjustability

	Electrical Specifications		
Input Voltage	90–264 VAC/120–390 VDC, Unive	90–264 VAC/120–390 VDC, Universal	
Input Frequency	47–63 Hz		
Input Current	120 VAC: 2.4 A max.	230 VAC: 1.2 A max.	
No Load Power	0.8 W		
Inrush Current	120 VAC: 35 A max .	230 VAC: 65 A max.	
Leakage Current	120 VAC: < 150 μA	230 VAC: < 300 μA	
Efficiency	120 VAC: 84% typical	230 VAC: 86% typical	
Hold-up Time	120 VAC > 10 ms	230 VAC > 10 ms	
Power Factor	120 VAC: 0.99	230 VAC: 0.95	
Output Power	160 to 200 W		
Peak Power	250 W for 0.2 s		
Line Regulation	+/-0.5%	+/-0.5%	
Load Regulation	+/-2.0%		
Transient Response	< 10%, 50% to 100% load change	< 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	+/-3.0%		
Over Current Protection	110% typical above rating	110% typical above rating	
Over Voltage Protection	110 to 150%		
Short Circuit Protection	Short term, autorecovery	Short term, autorecovery	
Switching Frequency	PFC converter: Variable, 35–250 k	PFC converter: Variable, 35–250 kHz; 90 kHz typical	
	Resonant converter: Variable, 35-	Resonant converter: Variable, 35–250 kHz; 90 kHz typical	
Operating Temperature	-20 to +70°C, refer derating curve, -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	1.6m Hours, Telcordia -SR332-issue 3		
Isolation Voltage	Min. 4242 VDC between input to	Min. 4242 VDC between input to output	
Cooling	Convection: 83 W; 300 LFM: 175 \	Convection: 83 W; 300 LFM: 175 W (5 V model)	
	Convection: 160 W; 300 LFM: 200 W (other models)		

Model Number	Description	Voltage	Max. Load ¹ (Convection)	Max. Load ¹ (300 LFM)	Min. Load	Ripple ²
LFWLT200-1000 LFWLT200-1000-2 LFWLT200-1300 LFWLT200-1300-2	Class 1 with Screw Terminal Class 2 with Screw Terminal Class 1 with JST Connector Class 2 with JST Connector	5 V	16.67 A	35.0 A 26.0 A	0.0 A	1%
LFWLT200-1001 LFWLT200-1001-2 LFWLT200-1301 LFWLT200-1301-2	Class 1 with Screw Terminal Class 2 with Screw Terminal Class 1 with JST Connector Class 2 with JST Connector	12 V	13.33 A	16.67 A	0.0 A	1%
LFWLT200-1002 LFWLT200-1002-2 LFWLT200-1302 LFWLT200-1302-2	Class 1 with Screw Terminal Class 2 with Screw Terminal Class 1 with JST Connector Class 2 with JST Connector	15 V	10.67 A	13.33 A	0.0 A	1%
LFWLT200-1003 LFWLT200-1003-2 LFWLT200-1303 LFWLT200-1303-2	Class 1 with Screw Terminal Class 2 with Screw Terminal Class 1 with ST Connector Class 2 with JST Connector	24 V	6.67 A	8.33 A	0.0 A	1%
LFWLT200-1004 LFWLT200-1004-2 LFWLT200-1304 LFWLT200-1304-2	Class 1 with Screw Terminal Class 2 with Screw Terminal Class 1 with JST Connector Class 2 with JST Connector	48 V	3.33 A	4.17 A	0.0 A	1%
LFWLT200-1005 LFWLT200-1005-2 LFWLT200-1305 LFWLT200-1305-2 LFWLT200-CK metal of	Class 1 with Screw Terminal Class 2 with Screw Terminal Class 1 with JST Connector Class 2 with JST Connector	30 V	5.33 A	6.67 A	0.0 A	1%

Notes

1. Combined output power from V1, VSTBY and VFAN should not exceed the total output power rating.

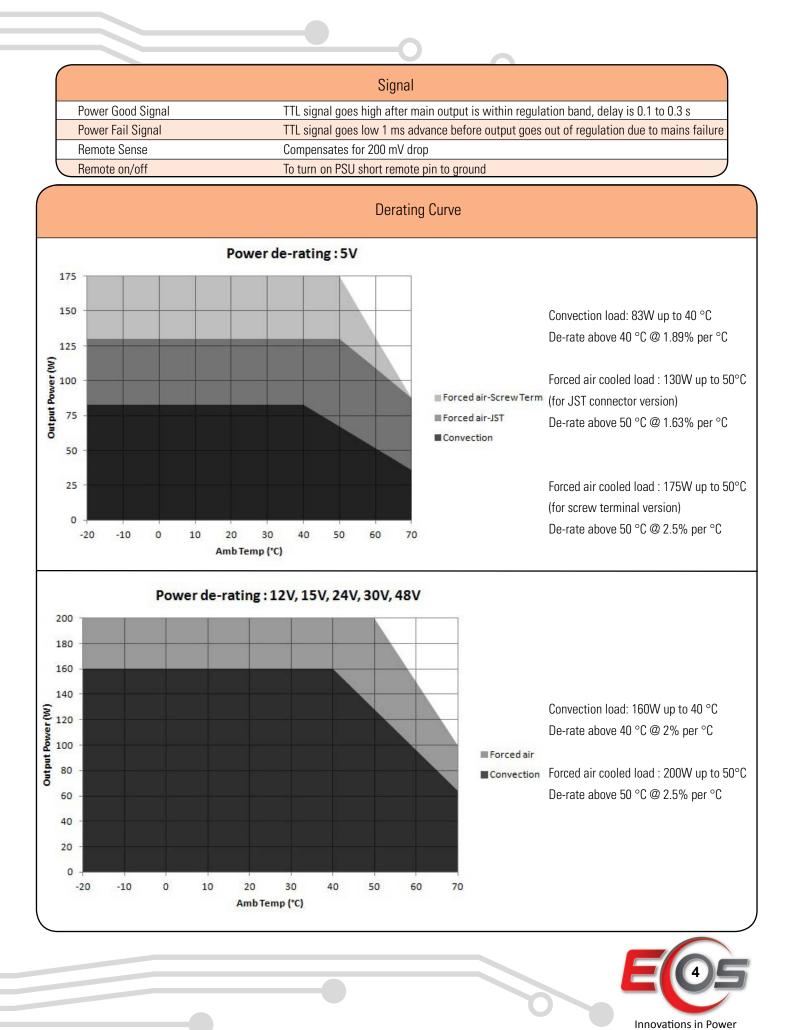
- 2. Ripple is 2% up to 20% load and < 1% above 20% load. Ripple is peak to peak with 20 MHz bandwidth and 10 μF (Electrolytic capacitor) in parallel with a 0.1 μF capacitor at rated line voltage and load ranges.
- 3. Fan output voltage tolerance is +/-20%. During V1 full load, VFAN needs min. 20 mA load to be within regulation band.
- 4. Peak current for fan output is 1 A.
- 5. Class 1 products have an Earthing tab. For Class 2 version Enquire with EOS Sales Rep before Order.
- 6. Specifications are for nominal input voltage, 25°C and max. load unless otherwise stated.
- 7. PSU is supplied with J3 housing, pin-4 and pin-6 shorted to enable main output without remote on/off feature.
- 8. Derate output power linearly to 80% from 90 VAC to 80 VAC input.
- 9. When used in Cover Kit, de-rate output power to 70 % under all operating conditions.



	Connectors	
J1	Pin 1	AC NEUTRAL
	Pin 2	AC LINE
Spade Connector (J4)		EARTH
(Class 1 product only)		
J2	Pin 1, 2, 3	RTN
	Pin 4, 5, 6	V1

Connectors			
J3	Pin 1	+VE REMOTE SENSE	
	Pin 2	VFAN (+12 V/0.5 A)	
	Pin 3	-VE REMOTE SENSE	
	Pin 4	REMOTE ON/OFF	
	Pin 5	VSTBY (+5 V/1 A, +/-5%)	
	Pin 6	RTN	
	Pin 7	POWER FAIL	
	Pin 8	POWER GOOD	

Mechanical Specifications				
AC Input Connector (J1)	Molex: 26–60–4030 or equivalent			
	Mating: 09-50-3031; Pins: 08-50-0106			
EARTH (J4)	Molex: 19705–4301 or equivalent; Mating: 190030001			
DC Output Connector (J2)	Option 1: Tyco: 2–1776112–3 or equivalent			
	Mating: 13 AWG wire			
	Option 2: JST: B6P–VH–B (LF) (SN) or B6P–VH (LF) (SN) or equivalent			
	Mating: VHR–6M; Pins: SVH–41T–P1.1			
Signal Connector (J3)	Molex: 22–23–2081 or equivalent			
	Mating: 22-01-2087, Pins: 08-50-0113			
Dimensions	5.0 x 3.0 x 1.5 inches (127.0 x 76.2 x 38.1 mm)			
Weight	325 g			
EMC				
Parameter	Conditions/Description	Criteria		
Conducted Emissions	EN55032-B, CISPR22-B, FCC PART15-B	Pass		
Radiated Emissions	EN 55032 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 3, 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 3, Criterion A		
Voltage dips, interruptions	EN 61000-4-11	Criterion A & B		
Safety				
CE Mark	Complies with LVD Directive			
Approval Agency	Nemko, UL			
Safety Standard(s)	UL/CSA C22.2 No./IEC/EN60950-1 (ed.2)			
Safety File Number(s)	afety File Number(s) Nemko: P15220619; CB: N090058; UL: E150565			



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