



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, 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 μ A	230 VAC: < 300 μ A
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%	
Load Regulation	+/-2.0%	
Transient Response	< 10%, 50% to 100% load change, 50 Hz, 50% duty cycle, 0.1 A/ μ s, recovery time < 5 ms	
Rise Time	< 100 ms	
Set Point Tolerance	+/-1%	
Output Adjustability	+/-3.0%	
Over Current Protection	110% typical above rating	
Over Voltage Protection	110 to 150%	
Short Circuit Protection	Short term, autorecovery	
Switching Frequency	PFC converter: Variable, 35–250 kHz; 90 kHz typical 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 output	
Cooling	Convection: 83 W; 300 LFM: 175 W (5 V model) Convection: 160 W; 300 LFM: 200 W (other models)	

Specifications are subject to change without notice. It is responsibility of each customer to thoroughly test each product and part number under their unique parameters and environments to ensure a product will work properly and reliably.

Click below for more details, to buy on-line or request volume pricing:

<http://power.sager.com/eos-LFWLT200-power-supply.html>

(866) 588-1750
power@sager.com
<http://power.sager.com>

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

Notes

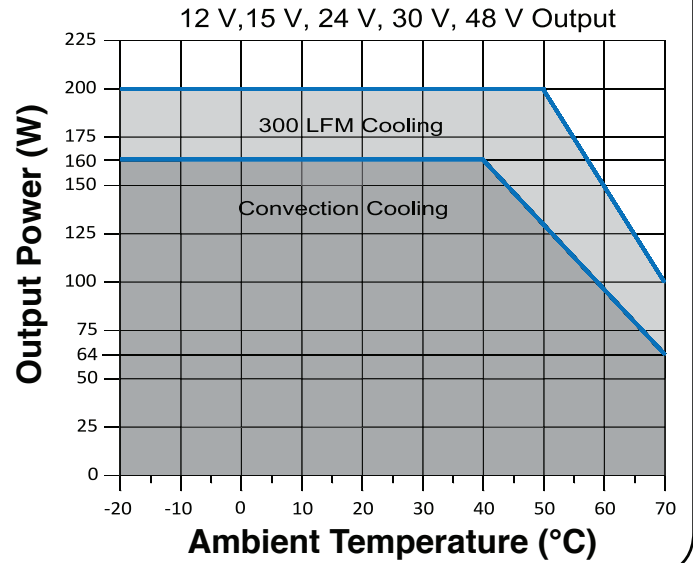
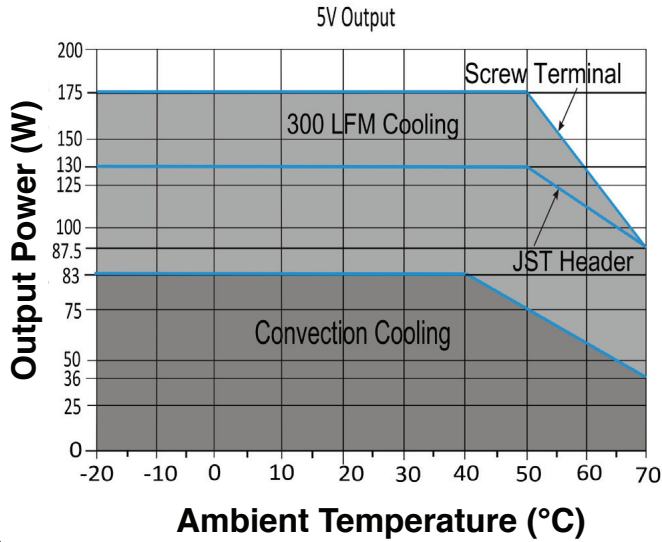
1. Combined output power from V1, VSTBY and VFAN should not exceed the total output power rating.
2. Ripple is 2% up to 20% load and < 1% above 20% load. Ripple is peak to peak with 20 MHz bandwidth and 10 µF (Tantalum capacitor) in parallel with a 0.1 µF capacitor at rated line voltage and load ranges.
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 and Class 2 products (-2 suffix) have no Earthing tab.
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.

Connectors		
J1	Pin 1	AC NEUTRAL
	Pin 2	AC LINE
Spade Connector (J4) (Class 1 product only)		EARTH
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	
CE Mark	Complies with LVD Directive
Conducted Emissions	EN55022-B, CISPR22-B, FCC PART15 Class B
Static Discharge	EN61000-4-2, Level-3
RF Field Susceptibility	EN61000-4-3, Level-3
Fast Transients/Bursts	EN61000-4-4, Level-3
Radiated Emissions	EN55022-B, CISPR22-B, FCC PART15-B, to be controlled in end system
Surge Susceptibility	EN61000-4-5, Level-3
Harmonic Current	EN61000-3-2, Class D
Safety	
Safety Standard(s)	UL/CSA C22.2 No./IEC/EN60950-1 (ed.2)
Approval Agency	Nemko, UL
Safety File Number(s)	Nemko: P10213125; UL: E150565
Signal	
Power Good Signal	TTL signal goes high after main output is within regulation band, delay is 0.1 to 0.3 s
Power Fail Signal	TTL signal goes low 1 ms advance before output goes out of regulation due to mains failure
Remote Sense	Compensates for 200 mV drop
Remote on/off	To turn on PSU short remote pin to ground

Derating Curve



Mechanical Drawing

