



### Features

- 4 x 2 x 1.2 inches
- Ultra high efficiency > 85%
- Low leakage current < 250  $\mu$ A
- Nemko, UL & CSA approvals to IEC60601
- EN55022-B, CISPR22-B, FCC Part15 Level B, IEC60601-1-2
- No Load Power < 0.3 W
- Class I & Class II options
- Cover kit accessory available

### Electrical Specifications

AC Input	90-264 V, Universal	
Input Frequency <sup>1</sup>	47-400 Hz	
Input Current	120 VAC: 0.85 A max.	230 VAC: 0.45 A max.
No Load Power	< 0.3 W for single output models < 0.5 W for multi output models	
Inrush Current	120 VAC: 30 A max.	230 VAC: 60 A max.
Leakage Current	120 VAC: < 140 $\mu$ A	230 VAC: < 250 $\mu$ A
Efficiency <sup>1</sup>	120 VAC: 85% typical	230 VAC: 85% typical
Hold-up Time	120 VAC: 6 ms	230 VAC: 6 ms
Output Power	40 W	
Line Regulation	+/-0.3%	
Load Regulation	V1: +/-0.5%; V2 & V3: +/-5%	
Transient Response	< 10%, 50% to 100% load change, 50/60 Hz, 50% duty cycle, 0.1 A/ $\mu$ s, recovery time < 5 ms	
Rise Time	< 100 ms	
Set Point Tolerance	V1: +/-3%; V2 & V3: +/-5%	
Output Adjustability	V1: +/-10%	
Over Current Protection	130% typical above rating	
Over Voltage Protection	130% typical for V1 only	
Short Circuit Protection	Short term, autorecovery	
Switching Frequency	Approximately 67 kHz	
Operating Temperature	-20 to 70°C, refer derating curve; -20 to 0°C, start-up is guaranteed	
Storage Temperature	-40 to +70°C	
Relative Humidity	95% Rh, noncondensing	
Altitude	Operating: 10,000 ft.; Nonoperating: 40,000 ft.	
MTBF	> 400 kh, MIL-HDBK-217F	
Isolation Voltage	Min. 5700 VDC between input to output, 2MOPP; 1500 VAC input to ground, 1MOPP; 500 VAC output to ground	
Cooling	Convection	

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-LFMWLT40-power-supply.html>

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

Model Number	Voltage	Max. Load <sup>2</sup>	Min. Load <sup>5</sup>	Ripple <sup>3</sup>
LFMWLT40-1000	V 1=5.1 V	8.0 A	0.0 A	1%
LFMWLT40-1001	V1=12 V	3.5 A	0.0 A	1%
LFMWLT40-1002	V1=15 V	2.7 A	0.0 A	1%
LFMWLT40-1003	V1=24 V	1.7 A	0.0 A	1%
LFMWLT40-1004	V1=48 V	0.83 A	0.0 A	1%
LFMWLT40-3000	V1=5.2 V, V2=12.5 V, V3=-12.8 V	V1=6.0 A, V2=2.0 A, V3=0.5 A	V1=0.5 A, V2=0.1 A, V3=0.0 A	1%
LFMWLT40-3001	V1=5.2 V, V2=24 V, V3=-12.8 V	V1=6.0 A, V2=1.0 A, V3=0.5 A	V1=0.5 A, V2=0.1 A, V3=0.0 A	1%
LFMWLT40-3002	V1=5.2 V, V2=14.6 V, V3=-14.8 V	V1=6.0 A, V2=1.5 A, V3=0.5 A	V1=0.5 A, V2=0.1 A, V3=0.0 A	1%
LFMWLT40-3003	V1=3.3 V, V2=5.2 V, V3=-12.8 V	V1=6.0 A, V2=3.0 A, V3=0.5 A	V1=1.0 A, V2=0.1 A, V3=0.0 A	V1=1.5%, V2 & V3=1%
LFWLT60-CK metal cover kit accessory				

Connectors		
J1	Pin 1	AC NEUTRAL
	Pin 2	AC LINE
Spade Connector		EARTH
J2	Pin 1	V1
	Pin 2	V1
	Pin 3	RTN
	Pin 4	RTN
	Pin 5	V3
	Pin 6	V2
J3	Pin 1	+V1 SENSE
	Pin 2	-V1 SENSE

### Notes

1. For MWLT40-3003 efficiency is 75% typical.
2. Maximum current per output channel. Do not exceed total output power rating.
3. Ripple is peak to peak with 20 MHz bandwidth and 10  $\mu$ F (Tantalum capacitor) in parallel with a 0.1  $\mu$ F capacitor at rated line voltage and load ranges.
4. Safety approved 47-63 Hz.
5. Min Load specified to meet cross regulation.
6. Add -II suffix to order Class II product.
7. Specifications are for nominal input voltage, 25oC and max. load unless otherwise stated.
8. Derate output power linearly to 80% from 90 VAC to 80 VAC input.

Mechanical Specifications	
AC Input Connector (J1)	Molex: 26-60-4030 or equivalent Mating: 09-50-3031; Pins: 08-50-0106
EARTH	Molex: 19705-4301 Mating: 190030001
DC Output Connector (J2)	Tyco: 640445-6 or equivalent Mating: 647402-6; Pins: 3-647409-1
Signal Connector (J3)	Molex: 22-23-2021 or equivalent Mating: 22-01-2021
Dimensions	4.0 x 2.0 x 1.2 inches (101.6 x 50.8 x 30.48 mm)
Weight	150 g
EMC*	
CE Mark	Complies with LVD Directive
Conducted Emissions	EN55022-B, CISPR22-B, FCC PART15-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 A
Safety*	
Safety Standard(s)	EN60601-1, IEC60601-1 (ed.3), ANSI / AAMI ES 60601 - 1, CSA C22.2 No. 60601-1
Approval Agency	Nemko, UL, C-UL
*Safety File Number(s)	Class I : Nemko: P13216549, N072791    UL/C-UL: E173812 Class II : Nemko: P13216630, N073023    UL/C-UL: E173812

