

LTEA100 SERIES

100W Enclosed Power Supply for IT Equipment



- Universal AC input/ Full range
- High Efficiency, and High reliability
- Output protections: OLP/OVP/SCP
- Wide operating ambient temperature (-25°C~70°C)
- All using 105°C long life electrolytic capacitors.
- 100% full load burn-in test

2 Year Warranty

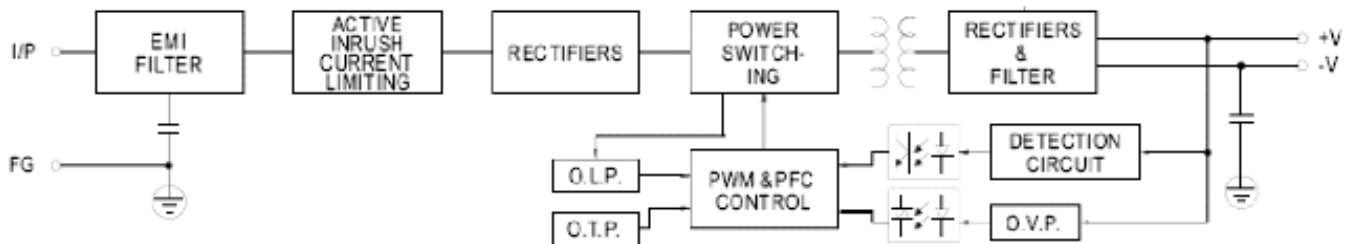
Approvals:

Electrical Specification

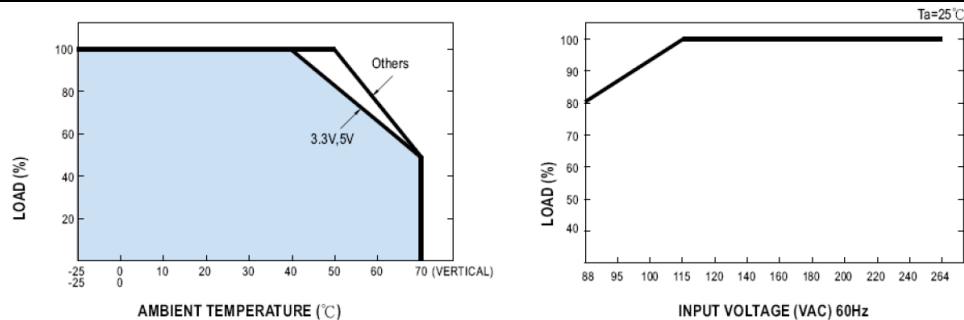
PRODUCT NUMBER		LTEA100-S050160	LTEA100-S150070	LTEA100-S150070	LTEA100-S240045	LTEA100-S480023	
OUTPUT	DC Output	5.0V	12.0V	15.0V	24.0V	48.V	
	Rated Current	16A	8.5A	7A	4.5 A	2.3A	
	Current Range	Note 1	0~16A	0~8.5A	0~7.0A	0~4.5A	0~2.3A
	Ripple and Noise	0~70	80mV	100mV	100mV	120mV	200mV
		-25~0	120mV	120mV	120mV	120mV	200 mV
	Note 2						
	Voltage ADJ. Range	±10.0%					
	Voltage Accuracy	±2.0%	±1.0%	±1.0%	±1.0%	±1.0%	
	Line Regulation	±0.5%					
	Load Regulation	±1.0%					
	Set-up Time	<2.0S (115Vac input, Full load); <1.0S (230Vac input, Full load)					
Hold up Time	>10mS(115Vac input, Full load); >20mS(230Vac input, Full load)						
Temperature Coefficient	±0.03%/°C						
Overshoot and Undershoot	<5.0%						
INPUT	Voltage Range	88Vac~264Vac,124~370Vdc					
	Frequency Range	47Hz-63Hz					
	Efficiency (Typical)		78% (115Vacinput)	79% (115Vacinput)	81% (115Vacinput)	84% (115Vacinput)	83% (115Vacinput)
			79% (230Vacinput)	81% (230Vacinput)	83% (230Vacinput)	85% (230Vacinput)	84% (230Vacinput)
	AC Current (max.)	2.0A	2.5A	2.5A	2.4A	2.5A	
	Inrush Current (Typical)	20A@115Vac	40A@230Vac	Cold start			
Leakage Current	Input—output:<0.25mA Input—PG:<3.5mA						

PROTECTION	Over Load	105%~150% of rated output current, constant power
	Over Voltage	105%~150% of rated output voltage, Constant Voltage
	Short Circuit	Long-term mode, auto recovery
ENVIRONMENT	Operating amb. Temp. & Hum.	-25°C~70°C; 20%~90%RH No condensing (refer to the derating curve)
	Storage Temp. & Hum.	-40°C~85°C; 10%~95%RH No condensing
SAFETY & EMC Note 3	Safety Standards	UL60950-1 2 nd Ed; IEC 60950-1:2005(2 nd Ed); EN60950-1:2006
	Withstand Voltage	Primary-Secondary:3.0KVac; ≤10mA .Primary-PG:1.5KVac; ≤10mA. Secondary-PG:0.5KVDC; ≤10mA.
	Isolation Resistance	≥100M ohms
	EMC Emission	Compliance to EN55022,EN55024 ClassB
	Harmonic Current	Compliance to EN61000-3-2,-3
	EMC Immunity	Compliance to EN61000-4-2,3,4,5,6,8,11;EN55024,EN61000-6-2 heavy industry level
OTHERS	MTBF (MIL-HDBK-217F)	More than 200,000Hrs (25 °C, Full load)
	Dimension (L*W*H)	160X98X38mm
	Packing	20PCS/CTN, 13.6KGS, 0.04CBM
	Cooling method	Cooling by free air convection
NOTE	<p>1. All parameters NOT specially mentioned are measured at rated input, rated load and 25 °C of ambient temperature.</p> <p>2. Measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 uF & 10uF parallel capacitor.</p> <p>3. The SPS is considered a component which will be installed into final equipment. The equipment must be re-confirmed that it still meets EMC directives.</p> <p>4. MEPOS offer accessories for Din-35 rail bar. Please contact sales staff for details.</p>	

Block Diagram



Derating Curve



Mechanical Specifications

