

LTEF150G SERIES

150W Enclosed Power Supply for Industrial Equipment



- Universal AC input range
- Built-in Active PFC function, PF>0.95
- Miniature size, high power density, high efficiency, long life and high reliability
- Withstand 300VA surge input for 5 secs.
- Output protections: OLP/SCP/OPP/OVP/OTP
- Wide operating ambient temp (-20°C~70°C)
- All using 105°C long life electrolytic capacitors.
- 100% full load burn-in test
- Easy assembling from top side
- PCB soldering side with conformal coating
- Suitable for critical applications

3 Year Warranty

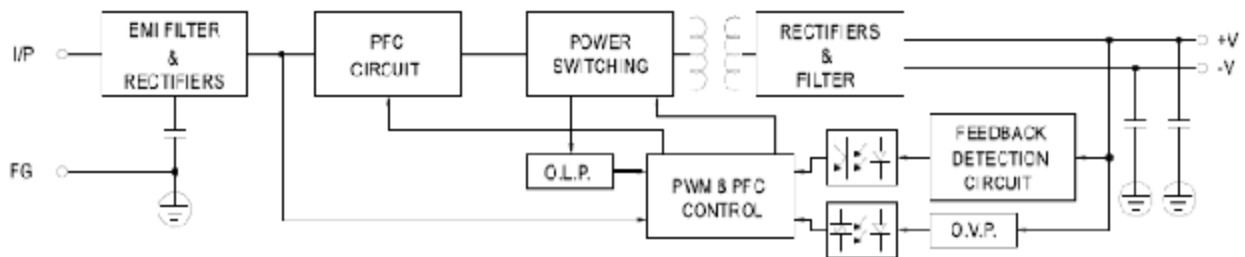
Approvals: PFC CE CB cULus RoHS

Specification

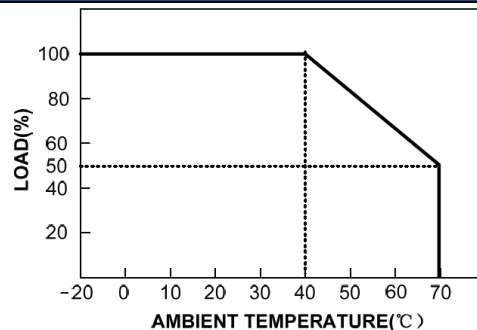
PRODUCT NUMBER		LTEF150G-S120125	LTEF150G-S150100	LTEF150G-S240063	LTEF150G-S480032	
OUTPUT	DC Output	12V	15V	24V	48V	
	Rated Current	12.5A	10A	6.3A	3.2A	
	Current Range <small>Note 1</small>	0~12.5A	0~10A	0~6.3A	0~3.2A	
	Ripple and Noise <small>Note 2</small>	0~70°C	≤100mV	≤100mV	≤100mV	≤100mV
		-20~0°C	≤200mV	≤200mV	≤200mV	≤200mV
	Voltage ADJ. Range	10.8~13.2V	13.5~16.5V	21.6~26.4V	43.2~52.8V	
	Voltage Accuracy	±2.0%	±2.0%	±2.0%	±2.0%	
	Line Regulation	±0.5%	±0.5%	±0.5%	±0.5%	
	Load Regulation	±2.0%	±2.0%	±1.0%	±1.0%	
	Set-up Time	≤3S /115Vac, ≤2S /230Vac				
	Hold up Time	≥10mS (220Vac input, Full load)				
	Temperature Coefficient	±0.03%/°C				
	Overshoot and Undershoot	<5.0%				
INPUT	Voltage Range	90Vac~264Vac				
	Frequency Range	47Hz~63Hz				
	Power factor (typical)	PF>0.98@115Vac, PF>0.95@230Vac				
	Efficiency (Typical) 230Vac input	≥86%	≥87%	≥87%	≥88%	
	AC Current (max.)	<2 A				
	Inrush Current (Typical)	<30A/115Vac, <45A/230Vac Cold start				
	Leakage Current	Input—output: ≤0.25mA Input—PG: ≤3.5mA				
PROTECTION	Over Load	105%~150% of rated output current, hiccup mode, auto recovery				
	Over power	105%~150% of rated output current, hiccup mode, auto recovery				
	Over Voltage	115%~150% of rated output voltage, hiccup mode, auto recovery				
	Over Temperature	105°C±5°C(detect on Mosfet temperature);shut down,auto recovery after the temperature goes down to 60°C				
	Short Circuit	Long-term mode, auto recovery				

ENVIRONMENT	Operating amb. Temp. & Hum.	-20°C~70°C; 20%~90%RH No condensing (refer to the derating curve)
	Storage Temp. & Hum.	-30°C~85°C; 10%~95%RH No condensing
SAFETY & EMC	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
	Note 3 EMS Emission	Compliance to EN55022 Class B
	Harmonic Current	Compliance to EN61000-3-2, Class A
	EMC Immunity	Compliance to EN61000-4-2,3,4,5,6,8,11; heavy industry level
OTHERS	MTBF (MIL-HDBK-217F)	More than 200,000Hrs (25°C, Full load)
	Dimension (L*W*H)	160×98.3×38mm
	Packing	20PCS/CTN, 14KGS, 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 power supply is considered as a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies" on MEPOS' website.</p>	

Block Diagram



Derating Curve



Mechanical Specification

