

LTEF800 SERIES

800W Enclosed Power Supply for Industrial Equipment



- Universal AC input/ Full range
- Built-in active PFC function, PF>0.96
- Using ZVS technology to reduce power dissipation
- Output protection: OVP/OLP/SCP/OPP/OTP
- Built in Fan speed control
- Built in AC inrush current limiting circuit(<20A)
- Build in constant current limiting circuit
- Built in Remote Sense Function
- Build in DC OK signal
- Wide operating ambient temperature (-30°C~70°C)
- 1 U low profile,41mm

3 Year Warranty

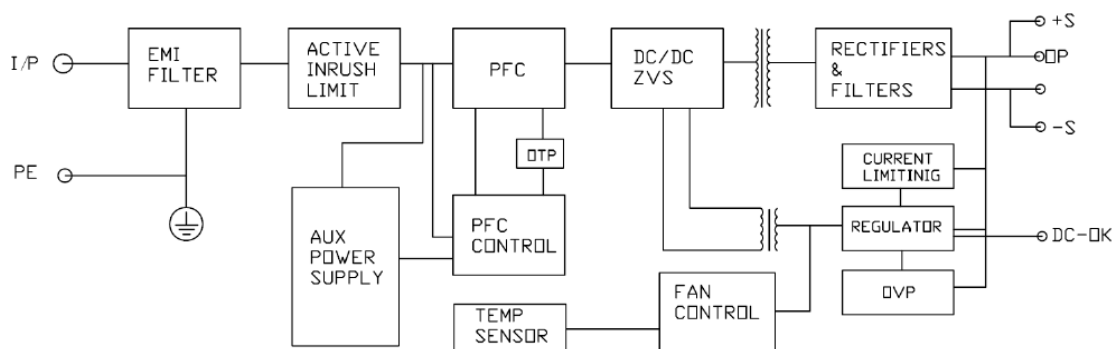
Approvals:

Specification

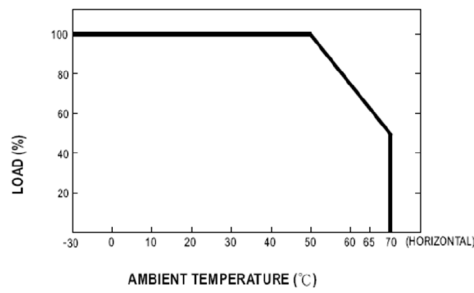
PRODUCT NUMBER		LTEF800-S240	LTEF800-S270	LTEF800-S480
OUTPUT	DC Output	24V	27V	48V
	Rated Current (100~127Vac)	27A	23A	14A
	Rated Current (128~264Vac)	33A	29A	16.5A
	Ripple and Noise Note 2	≤200mV	≤200mV	≤200mV
	Voltage ADJ. Range	-5%~+10% of rated output voltage		
	Voltage Accuracy	±2%		
	Line Regulation	±0.5%		
	Load Regulation	±2%		
	Set-up Time	≤3S (220Vac input, Full load)		
	Hold up Time	≥8mS (220Vac input, Full load)		
	Temperature Coefficient	±0.03%/°C		
	Overshoot and Undershoot	<5.0%		
INPUT	Voltage Range	90Vac~264Vac, 127Vdc~370Vdc		
	Frequency Range	47Hz--63Hz		
	Power Factor(Typical)	PF≥0.96/230VAC	PF≥0.98/115VAC	Full Load
	Efficiency (Typical)	≥89%	≥89%	≥89%
	AC Current (max.)	≤12 A		
	Inrush Current (Typical)	≤20A @220Vac Cold start		
	Leakage Current	Input—output: ≤0.25mA Input—PG: ≤3.5mA		

PROTECTION	Over Load	110%~135% of rated output current, constant current, auto recovery
	Over power	110%~135% of rated output power, constant current, auto recovery
	Over Temperature	105°C±5°C(detect on Mosfet temperature);shut down,auto recovery after the temperature goes down to 70°C
	Over Voltage	110%~150% of rated output voltage, constant voltage, auto recovery
	Short Circuit	Long-term mode, constant current, auto recovery
ENVIRONMENT	Operating amb. Temp. & Hum.	-30°C~70°C; 20%~90%RH No condensing (refer to derating curve)
	Storage Temp. & Hum.	-40°C~85°C; 10%~95%RH No condensing
SAFETY & EMC (Note 3)	Safety Standards	UL60950-1 2nd Ed; IEC 60950-1:2005(2nd Ed) ;EN60950-1:2006
	Withstand Voltage	Primary-Secondary:3.0KVac; ≤10mA .Primary-PG:1.5KVac; ≤10mA. Secondary-PG:0.5KVac; ≤10mA.
	Isolation Resistance	10M ohms
	EMI Conduction&Radiation	Compliance to EN55022, Class B
	Harmonic Current	Compliance to EN61000-3-2,Class D
	EMS 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° āC, Full load)
	Dimension (L*W*H)	226×116.5×41mm
	Packing	6PCS/CTN, 8.9KGS, 0.04CBM
	Cooling method	Forced air cooling(Built-in fan,the fan speed is controlled by load and internal temp.)
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 & 47uF 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

