

**LTEF600 SERIES**

**600W 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
- Built in Fan speed control and over temp.protection
- 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**

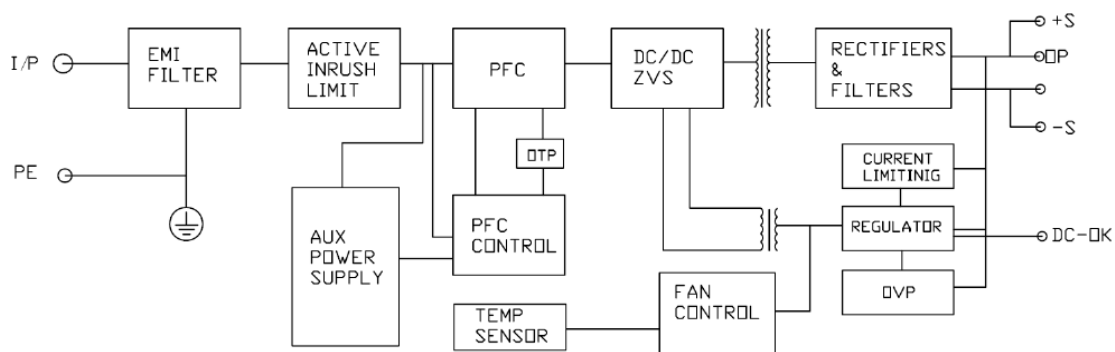
Approvals: PFC CE CB UL US RoHS

**Specification**

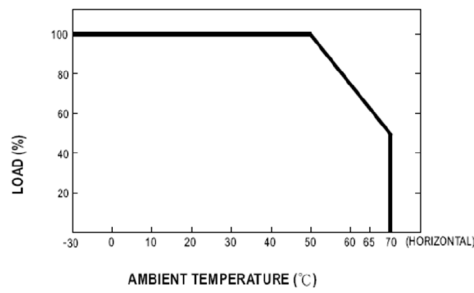
PRODUCT NUMBER		LTEF600-S120	LTEF600-S240	LTEF600-S270	LTEF600-S360	LTEF600-S480	
OUTPUT	DC Output	12V	24V	27V	36V	48V	
	Rated Current (100~127Vac)	34A	22A	18V	14A	11A	
	Rated Current (128~264Vac)	42A	26.5A	23V	17.5A	13.6A	
	Ripple and Noise Note 2	0-70°C	120mV	150mV	150mV	150mV	200mV
		-30°C	180mV	150mV	150mV	150mV	200mV
	Voltage ADJ. Range	-5%~+10% of rated output voltage					
	Voltage Accuracy	±2.0%	±2.0%	±2.0%	±2.0%	±2.0%	
	Line Regulation	±0.5%	±0.5%	±0.5%	±0.5%	±0.2%	
	Load Regulation	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	
	Set-up Time	< 1.5S (230Vac input, Full load), < 3S (115Vac input, Full load)					
Hold up Time	> 16mS/ (230Vac input, Full load)						
Temperature Coefficient	±0.05%/°C						
Overshoot and Undershoot	<5.0%						
INPUT	Voltage Range	90Vac~264Vac, 127Vdc~370Vdc					
	Frequency Range	47Hz--63Hz					
	Power Factor(Typical)	PF>0.98/115VAC PF>0.96/230VAC					
	Efficiency ( Typical)	88%	89%	89%	90%	90%	
	AC Current (max.)	<7A					
	Inrush Current (Typical)	<20A@230Vac Cold start					
	Leakage Current	Input—output: ≤0.1mA Input—PG: ≤0.75mA					

<b>PROTECTION</b>	Over Load	110%~135% of rated output current, constant current
	Over Temperature	105°C+5°C(detect on Mosfet temperature);shut down,auto recovery after the temperature goes down to 75°C
	Over Voltage	110%~150% of rated voltage; constant voltage
	Short Circuit	Long-term mode, constant current, auto recovery
<b>ENVIRONMENT</b>	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
<b>SAFETY &amp; EMC</b>  (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	≥100M 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
<b>OTHERS</b>	MTBF (MIL-HDBK-217F)	More than 200,000Hrs (25 , Full load)°C
	Dimension (L*W*H)	218×116.5×41mm
	Packing	6PCS/CTN, 8.7KGS, 0.04CBM
	Cooling method	Forced air cooling(Built-in fan)
<b>NOTE</b>	<p>1. All parameters NOT specially mentioned are measured at rated input, rated load and 25 of ambient temperature.°C</p> <p>2.Measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 uF &amp; 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 <a href="http://www.powereid.com">http://www.powereid.com</a>.</p>	

### Block Diagram



### Derating Curve



### Mechanical Specification

