

**LTEF320G SERIES**

**320W Enclosed Power Supply for Industrial Equipment**



- Universal AC input (90~264Vac)
- Built-in active PFC, PF>0.95
- Withstand 300Vac surge input for 5 sec
- High efficiency, long life and high reliability
- Output protection: SCP/OLP/OPP
- Wide operating ambient temperature (-20~65°C)
- Operating altitude up to 5000m
- PCB both sides with conformal coating
- All using 105°C long life electrolytic capacitor
- 100% full load burn-in test
- Built-in cooling fan speed control

**3 Year Warranty**

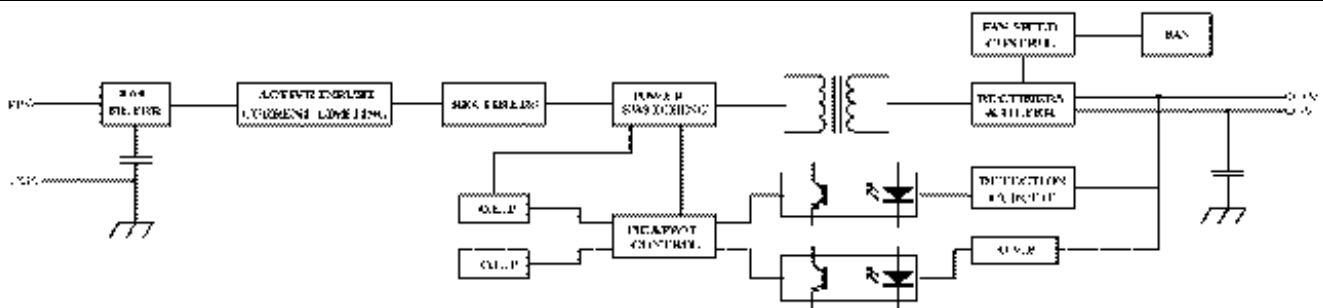
Approvals:

**Specification**

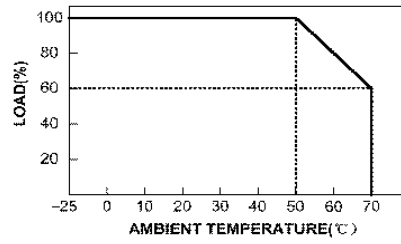
PRODUCT NUMBER		LTEF320G-S050550	LTEF320G-S120250	LTEF320G-S240130	LTEF320G-S360088	LTEF320G-S480067
OUTPUT	DC Output	5.0V	12V	24V	36V	48V
	Rated Current	55A	25A	13A	8.8A	6.7A
	Current Range Note 1	0~55A	0~25A	0~13A	0~8.8A	0~6.7A
	Ripple and Noise Note 2	<150mV	<150mV	<200mV	<200mV	<200mV
	Voltage ADJ. Range	±10% of rated output voltage				
	Voltage Accuracy	±1.0%				
	Line Regulation	±0.5%				
	Load Regulation	±1.0%				
	Set-up Time	≤2S (230VAC input, Full load); ≤4S (120VAC input, Full load)				
	Hold up Time	≥10mS (120/230Vac input, Full load)				
	Temperature Coefficient	±0.03%/°C				
	Overshoot and Undershoot	<5.0%				
INPUT	Voltage Range	90Vac~264Vac, 120Vdc~370Vdc				
	Frequency Range	47Hz--63Hz				
	Power Factor(Typical)	PF>0.98/120VAC PF>0.95/230VAC				
	Efficiency ( Typical)	79%	84.5%	87%	87%	87.5%
	AC Current (max.)	< 4.5A				
	Inrush Current (Typical)	<50A@220Vac <30A@110Vac Cold start				
	Leakage Current	Input—output:<0.25mA Input—PG:<3.5mA				

<b>PROTECTION</b>	Over Load	105%~150% of rated output current, Hiccup mode, auto recovery
	Over power	105%~150% of rated output power, hiccup mode, auto recovery
	Short Circuit	Long-term mode, auto recovery
<b>ENVIRONMENT</b>	Operating amb. Temp. & Hum.	-20°C~65°C; 20%~90%RH No condensing(refer to the derating curve)
	Vibration	10 ~ 500Hz, 2G 10min./1cycle, period for60min. each along X,Y, Z axes
	Storage Temp. & Hum.	-40°C~85°C; 10%~95%RH No condensing
<b>SAFETY &amp; EMC</b>  (Note 3)	Safety Standards	UL60950-1 2 <sup>nd</sup> Ed; IEC 60950-1:2005(2 <sup>nd</sup> Ed) ;EN60950-1:2006
	Withstand Voltage	Primary-Secondary: 3.0KVac; ≤10mA .Primary-PG:1.5KVac; ≤10mA. Secondary-PG: 0.5KVDC;≤10mA.
	Isolation Resistance	10M ohms
	EMI Conduction&Radiation	Compliance to EN55022,EN55024 Class B
	Harmonic Current	Compliance to EN61000-3-2,-3
	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° ĄC, Full load)
	Dimension (L*W*H)	199×99×50mm
	Packing	12PCS/CTN, 9.8KGS, 0.04CBM
	Cooling method	Cooling by forced air (built-in DC fan)
<b>NOTE</b>	<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 &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 MEPOS website.</p>	

### Block Diagram



### Derating Curve



### Mechanical Specification

