

# LTE42S-D12 AC/DC Switching Power Supplies

## LTE42S-D12

### INPUT SPECIFICATIONS :

VOLTAGE 90-264 VAC, UNIVERSAL  
 FREQUENCY AUTO RANGING  
 CURRENT 1.2 ARMS. MAX. @115VAC 42W LOAD  
 0.6 ARMS. MAX. @230VAC 42W LOAD  
 INRUSH SURGE CURRENT < 30A TYPICAL, COLD START @25°C, 115VAC

### OUTPUT SPECIFICATIONS :

OUTPUT WATTAGE 42 WATTS MAX. (CONVECTION RATING)  
 LINE REGULATION +/-1.0% TYPICAL  
 LOAD REGULATION MAIN OUTPUTS +/- 4%, AUX. OUTPUTS +/- 4 % TYPICAL (NOTE2)  
 NOISE & RIPPLE 1.5-2 % TYPICAL AT FULL LOAD (NOTE3)  
 OVERSHOOT/UNDERSHOOT 5% MAX. @ TURN-ON/ TURN-OFF



VOLTAGE (Vdc)		LOAD RANGE (A)			LINE REGULATION	LOAD REGULATION (NOTE 2)	RIPPLE & NOISE (NOTE 3)
		MIN	MAX	PEAK			
V1	+5.1V	0A	6.0A	7.0A	±1.0%	4.896~5.304Vdc (±4%)	100mVp-p (2%)
V2	+12V	0A	1.0A	1.2A		10.8~13.8Vdc (-10+15%)	180mVp-p (1.5%)

- Note :** 1. Peak current lasting <30 seconds with a maximum 10% Duty Cycle @100Vac MIN.  
 2. Cross/Load regulation is tested at 10% to 100% of rated load and other outputs are set at 50% of rated load.  
 3. Peak-to-peak for 42W (convection rating) @90Vac MIN. ; Measurements with a 20MHZ bandwidth and terminated with a 10uF electrolytic CAP. in parallel with a 0.1uF ceramic Cap.

### ENVIRONMENTAL :

OPERATING TEMPERATURE : 0°C TO 50°C AMBIENT, DERATED EACH OUTPUT AT 2.5% PER °C FROM 50°C TO 70°C  
 STORAGE TEMPERATURE : -40°C TO 85°C  
 HUMIDITY : OPERATING, NON-CONDENSING, 5% TO 95%  
 VIBRATION : RANDOM OPERATING 2.4 GRMS/MAX. 3 AXES 50~500Hz 10 MINUTES/AXIS  
 SHOCK : OPERATING HALF SINE 20 GPK/MAX. 3 AXES 10ms 6 SHOCKS TOTAL

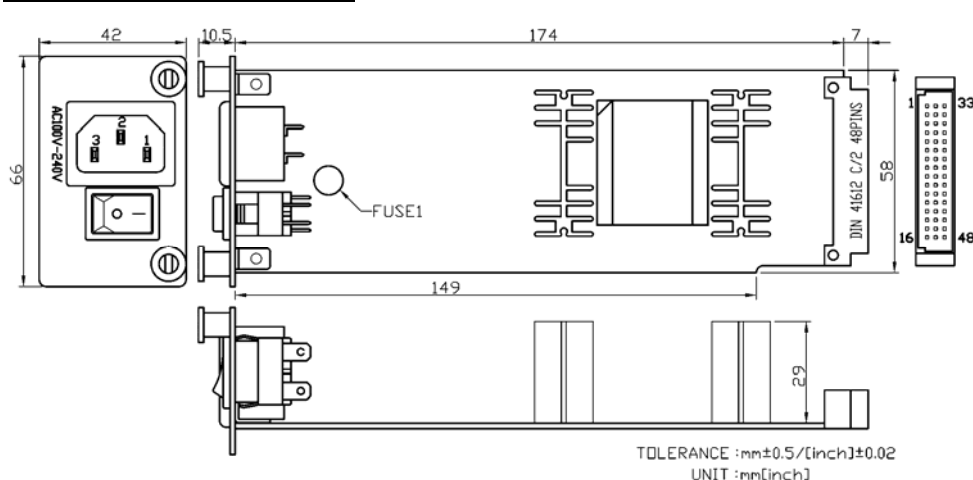
### GENERAL SPECIFICATIONS :

EFFICIENCY : @115VAC WITH FULL LOAD >73 %, AND @230VAC WITH FULL LOAD >73%  
 TURN-ON TIME : @115 VAC WITH FULL LOAD < 2 SEC  
 HOLD-UP TIME : @115VAC WITH CONVECTION RATING

### ELECTROMAGNETIC COMPATIBILITY SPECIFICATIONS :

EMI CONDUCTED/RADIATED : FCC & CISPR CLASS B  
 DESIGNED TO MEET EN61000-3-3,-4-2,-3,-4,-5,-6,-8,-11  
 DESIGNED TO MEET THE FOLLOWING STANDARDS UL 60950, CUL 60950, TUV EN6090, CB, CE MARKED

### MECHANICAL SPECIFICATION



LITONE (LTE) ELECTRONICS CO., LTD

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