

FUTURA LIGHTING

Futura's 600W Single Output Switching Power Supply

Product Name: LED-600W DC Series (UL Recognized)



■ Features :

- AC input active surge current limiting
- AC input range selected by switch
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Forced air cooling by built-in DC fan
- High power density 4.9w/inch³
- Built-in remote sense function
- UL approved
- Low cost
- 2 years warranty



SPECIFICATION

MODEL	LED-600W DC 12V	LED-600W DC 24V	
OUTPUT	DC VOLTAGE	12V	24V
	RATED CURRENT	50A	25A
	CURRENT RANGE	0 ~ 50A	0 ~ 25A
	RATED POWER	600W	600W
	RIPPLE & NOISE (max.) Note.2	150mVp-p	150mVp-p
	VOLTAGE ADJ. RANGE	10 ~ 13.5V	22 ~ 26.4V
	VOLTAGE TOLERANCE Note.3	±1.0%	±1.0%
	LINE REGULATION	±0.5%	±0.5%
	LOAD REGULATION	±0.5%	±0.5%
	SETUP, RISE TIME	1000ms, 50ms/230VAC	1000ms, 50ms/115VAC at full load
HOLD UP TIME (Typ.)	20ms/230VAC	16ms/115VAC at full load	
INPUT	VOLTAGE RANGE	90 ~ 132VAC / 180 ~ 264VAC selected by switch	
	FREQUENCY RANGE	47 ~ 63Hz	
	EFFICIENCY (Typ.)	78%	87%
	AC CURRENT (Typ.)	12A/115VAC	7.5A/230VAC
	INRUSH CURRENT (Typ.)	30A/115VAC	60A/230VAC
	LEAKAGE CURRENT	<2.0mA / 240VAC	
PROTECTION	OVERLOAD	105 ~ 125% rated output power Protection type : Shut down o/p voltage, re-power on to recover	
	OVER VOLTAGE	5.75 ~ 6.3V	27.6 ~ 32.4V
	OVER TEMPERATURE	85°C ±5°C (TSW1) detect on heatsink of power transistor Protection type : Shut down o/p voltage, recovers automatically after temperature goes down	
ENVIRONMENT	WORKING TEMP.	-20 ~ +60°C (Refer to output load derating curve)	
	WORKING HUMIDITY	20 ~ 90% RH non-condensing	
	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH	
	TEMP. COEFFICIENT	±0.05%/°C (0 ~ 50°C)	
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes	
SAFETY & EMC	SAFETY STANDARDS	UL60950-1 approved	
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC	I/P-FG:1.5KVAC O/P-FG:0.5KVAC
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms/500VDC	
OTHERS	MTBF	197K hrs min.	MIL-HDBK-217F (25°C)
	DIMENSION	247*127*63.5mm / 9.7**5**2.5" (L*W*H)	
	PACKING	2.1Kg; 6pcs/13.4Kg/1.03CUFT	
NOTE	1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. 3. Tolerance : includes set up tolerance, line regulation and load regulation.		