

# FUTURA LIGHTING

## Futura's 350W Single Output Switching Power Supply

**Product Name:** LED-350W DC Series (UL Recognized)



### ■ Features :

- AC input range selectable by switch
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Forced air cooling by built-in DC fan
- Withstand 300vac surge input for 5 second
- Built-in cooling Fan ON-OFF control
- Built-in constant current limiting circuit
- 100% full load burn-in test
- Fixed switching frequency at 90KHz
- 2 years warranty

### SPECIFICATION



MODEL		LED-350W DC 12V	LED-350W DC 24V
OUTPUT	DC VOLTAGE	12V	24V
	RATED CURRENT	29A	14.6A
	CURRENT RANGE	0 ~ 29A	0 ~ 14.6A
	RATED POWER	348W	350.4W
	RIPPLE & NOISE (max.) Note.2	150mVp-p	150mVp-p
	VOLTAGE ADJ. RANGE	10 ~ 13.5V	20 ~ 26.4V
	VOLTAGE TOLERANCE Note.3	±1.5%	±1.0%
	LINE REGULATION	±0.5%	±0.5%
	LOAD REGULATION	±1.0%	±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 Note.4	90 ~ 132VAC / 180 ~ 264VAC by switch	254 ~ 370VDC
	FREQUENCY RANGE	47 ~ 63Hz	
	EFFICIENCY (Typ.)	83%	
	AC CURRENT (Typ.)	7A/115VAC    4A/230VAC	
	INRUSH CURRENT (Typ.)	40A/115VAC    60A/230VAC	
	LEAKAGE CURRENT	<3.5mA / 240VAC	
PROTECTION	OVER LOAD	105 ~ 135% rated output power Protection type : Constant current limiting, recovers automatically after fault condition is removed	
	OVER VOLTAGE	13.8 ~ 16.2V	27.6 ~ 32.4V
	OVER TEMPERATURE	90°C ±5°C (3.3~7.5V); 85°C ±5°C (12~15V); 80°C ±5°C (24V); 75°C ±5°C (27~48V) (TSW1) Detect on case Protection type : Shut down O/P voltage, recovers automatically after temperature goes down	
FUNCTION	FAN ON/OFF CONTROL(Typ.)	RTH2 ≥ 50°C FAN ON, ≤ 45°C FAN OFF (3.3 ~ 7.5V) RTH2 ≥ 55°C FAN ON, ≤ 50°C FAN OFF (12 ~ 48V)	
ENVIRONMENT	WORKING TEMP.	-20 ~ +60°C (Refer to output load derating curve)	
	WORKING HUMIDITY	20 ~ 90% RH non-condensing	
	STORAGE TEMP., HUMIDITY	-20 ~ +85°C, 10 ~ 95% RH	
	TEMP. COEFFICIENT	±0.03%/°C (0 ~ 50°C)	
SAFETY	VIBRATION	10 ~ 500Hz, 5G 10min./1cycle, 60min. each along X, Y, Z axes	
	SAFETY STANDARDS	UL60950-1 approved	
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC    I/P-FG:2KVAC    O/P-FG:0.5KVAC	
OTHERS	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms/500VDC / 25°C / 70% RH	
	MTBF	234.3K hrs min.    MIL-HDBK-217F (25°C)	
	DIMENSION	215*115*50mm (L*W*H)	
NOTE	PACKING	1.07Kg; 12pcs/13.5Kg/0.92CUFT	
		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. 4. Please connect positive pole of input voltage with mark "L" of terminal block, connect negative pole of input voltage with mark "N" of terminal block, using DC voltage for input voltage.	