

600W Single Output Switching Power Supply



■ Features :

- AC input range selectable by switch
 - Protections: Short circuit / Overload / Over voltage/ Over temperature
 - Forced air cooling by built-in DC fan
 - Built-in constant current limiting circuit
 - 100% full load burn-in test
 - LED indicator for power on
- CE Rohs approved
- Low cost, high reliability
 - 2 years warranty

SPECIFICATION

MODEL		S-600-12	S-600-15	S-600-24	S-600-36	S-600-48			
OUTPUT	DC VOLTAGE	12V	15V	24V	36V	48V			
	RATED CURRENT	50A	40A	25A	16.7A	12.5A			
	CURRENT RANGE	0 ~ 50A	0 ~ 40A	0 ~ 25A	0 ~ 16.7A	0 ~ 12.5A			
	RATED POWER	600W	600W	600W	600W	600W			
	RIPPLE & NOISE (max.) Note.2	150mVp-p	150mVp-p	150mVp-p	240mVp-p	240mVp-p			
	VOLTAGE ADJ. RANGE	10 ~ 13.5V	13.5 ~ 18V	20 ~ 26.4V	32~40V	41 ~ 56V			
	VOLTAGE TOLERANCE Note.3	±1.5%	±1.0%	±1.0%	±1.0%	±1.0%			
	LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%			
	LOAD REGULATION	±1.0%	±0.5%	±0.5%	±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 Note.4	90 ~ 132VAC / 180 ~ 264VAC by switch 254 ~ 370VDC							
	FREQUENCY RANGE	47 ~ 63Hz							
	EFFICIENCY (Typ.)	83%	84%	85%	85%	85%			
	AC CURRENT (Typ.)	7A/115VAC 14A/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 18 ~ 21V 27.6 ~ 32.4V 41.4~46.8V 57.6 ~ 67.2V Protection type : Shut down O/P voltage, re-power on to recover							
	OVER TEMPERATURE	90℃ ±5℃ (3.3~7.5V); 85℃ ±5℃ (12~15V); 80℃ ±5℃ (24V); 75℃ ±5℃ (27~48V) (TSW1) Detect on case Protection type : Shut down O/P voltage, recovers automatically after temperature goes down							
FUNCTION									
ENVIRONMENT	WORKING TEMP.	-20 ~ +60℃ (Refer to output load derating curve)							
	WORKING HUMIDITY	20 ~ 90% RH non-condensing							
	STORAGE TEMP., HUMIDITY	-20 ~ +85℃, 10 ~ 90% RH							
	TEMP. COEFFICIENT	±0.03%/℃ (0 ~ 50℃)							
	VIBRATION	10 ~ 500Hz, 3G 10min./1 cycle, 60min. each along X, Y, Z axes							
SAFETY	SAFETY STANDARDS	UL60950-1 approved							
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC							
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms/500VDC / 25℃ / 70% RH							
OTHERS	MTBF	234.3K hrs min. MIL-HDBK-217F (25℃)							
	DIMENSION	240*145*65mm(L*W*H)							
	PACKING	1.9Kg; 21pcs/40Kg							
NOTE	1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25℃ 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.								

■ Mechanical Specification

Unit:mm

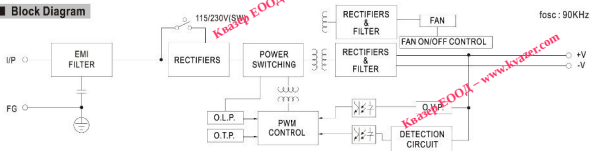


Terminal Pin No. assignment :

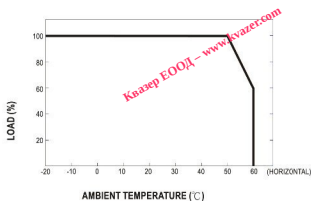
Pin No.	Assignment	Pin No.	Assignment
1	AC/L	4-6	DC OUTPUT -V
2	AC/N	7-9	DC OUTPUT +V
3	PG		



■ Block Diagram



Derating Curve



■ Static Characteristics

