


**Features:**

AC input  
 Protections: Short circuit/Over load/Over voltage  
 Forced air cooling by built-in DC fan  
 PWM control and regulated  
 Built-in cooling Fan ON-OFF control  
 100% full load burn-in test  
 Low cost

MODEL		S-500-12	S-500-13.5	S-500-15	S-500-24	S-500-27	S-500-48
OUTPUT	DC VOLTAGE	12V	13.5V	15V	24V	27V	48V
	RATED CURRENT	40A	36A	32A	20A	18A	10A
	CURRENT RANGE	0 ~ 40A	0 ~ 36A	0 ~ 32A	0 ~ 20A	0 ~ 18A	0 ~ 10A
	RATED POWER	480W	486W	480W	480W	486W	480W
	RIPPLE & NOISE (max.)	240mVp-p	240mVp-p	240mVp-p	240mVp-p	200mVp-p	300mVp-p
	VOLTAGE ADJ. RANGE	10 ~ 13.2V	12 ~ 15V	13.5 ~ 18V	20 ~ 26.4V	26 ~ 32V	41 ~ 56V
	VOLTAGE TOLERANCE	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%
	LINE REGULATION	0.5%	0.5%	0.5%	0.5%	0.5%	0.5%
	LOAD REGULATION	0.5%	0.5%	0.5%	0.5%	0.5%	0.5%
	SETUP, RISE, HOLD TIME	200ms, 50ms, 20ms at full load					
INPUT	VOLTAGE RANGE	180 ~ 264VAC (110VAC input can be custom-made)					
	FREQUENCY RANGE	47 ~ 63Hz					
	EFFICIENCY (Typ.)	84%	84%	84%	86.0%	87.0%	88%
	AC CURRENT	7A/115V      3.5A/230V					
	INRUSH CURRENT (max.)	18A/115V      36A/230V					
	LEAKAGE CURRENT	<3.5mA / 240VAC					
PROTECTION	OVERLOAD	105 ~ 135% of rate load Protection type : Fold back current limiting, recovers automatically after fault condition is removed					
	OVER VOLTAGE	13.8 ~ 16.2V	15.5 ~ 18.2V	18 ~ 21V	27.6 ~ 32.4V	31 ~ 36.5V	57.6 ~ 67.2V
		Protection type : Hiccup mode, recovers automatically after fault condition is removed.					
	FAN CONTROL,O.T.P.	RTH1 or RTH2 ≥ 50℃ FAN ON,≧45℃ FAN, ≧ 70C    output shut down					
ENVIRONMENT	WORKING TEMP.	-10 ~ +60℃ , 20 ~ 90% RH non-condensing					
	WORKING HUMIDITY	20 ~ 90% RH non-condensing					
	STORAGE TEMP., HUMIDITY	-20 ~ +85C, 10 ~ 95% RH					
	TEMP. COEFFICIENT	0.03%/C (0 ~ 50C)					
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes					
SAFETY & EMC(Note 4)	SAFETY STANDARDS	Design refer to UL1950, TUV EN60950-1					
	WITHSTAND VOLTAGE	I/P-O/P:1.5KVAC 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					
	EMI CONDUCTION &	Compliance to EN55022 (CISPR22) Class B					
	HARMONIC CURRENT	Compliance to EN61000-3-2,-3					
	EMS IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11;ENV50204,Light industry level,criteria A					
OTHERS	MTBF	138.6K hrs min. MIL-HDBK-217F (25C)					
	DIMENSION	240*125*65mm (L*W*H)					
	PACKING	1.35Kgs/pcs, 12pcs/17.7Kgs/0.0326CMB					
NOTE	1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25Cof 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. The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC 5. Derating may be needed under low input voltages. Please check the derating curve for more details.						