

The PS-48-10 Power Supply consists of a 48 VDC single output power supply with PFC function and one North American standard power cord.

- Input Voltage: 88~264 VAC; 47~63 Hz
- Output Voltage: 48 VDC
- Maximum Output Current: 10 A
- Dimensions: 184 x 120 x 93 mm
- Power cords for the UK, EU, and Italy can be purchased separately.
- When ordered in conjunction with TE Technology coolers and temperature controllers the interconnection cables are included free of charge.
- See additional pages for base power supply specifications.



Expert Engineering, Precision Manufacturing: *Quality Thermal Solutions Delivered*

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500W Single Output with PFC Function

SP-500 series



Features :

- Universal AC input / Full range
- Built-in active PFC function, PF>0.95
- Protections: Short circuit / Overload/ Over voltage / Over temperature
- Forced air cooling by built-in DC fan
- Built-in cooling Fan ON-OFF control
- Built-in remote ON-OFF control
- Built-in remote sense function
- Fixed switching frequency at 110KHz



SPECIFICATION

MODEL		SP-500-48
	DC VOLTAGE	48V
OUTPUT	RATED CURRENT	10A
	CURRENT RANGE	0~10A
	RATED POWER	480W
	RIPPLE & NOISE (max.) Note.2	300mVp-p
	VOLTAGE ADJ. RANGE	41~56V
	VOLTAGE TOLERANCE Note.3	
	LINE REGULATION	±0.5%
	LOAD REGULATION	±0.5%
	SETUP, RISE TIME	1500ms, 50ms at full load
	HOLD UP TIME (Typ.)	24ms at full load
INPUT	VOLTAGE RANGE Note.5	88 ~ 264VAC 124 ~ 370VDC
	FREQUENCY RANGE	47 ~ 63Hz
	POWER FACTOR (Typ.)	PF>0.95/230VAC PF>0.95/115VAC at full load
	EFFICIENCY(Typ.)	87%
	AC CURRENT (Typ.)	7A/115VAC 3.5A/230VAC
	INRUSH CURRENT (Typ.)	18A/115VAC 36A/230VAC
	LEAKAGE CURRENT	<3.5mA/240VAC
PROTECTION	OVERLOAD	105 ~ 135% rated output power
		Protection type : Constant current limiting, recovers automatically after fault condition is removed
	OVER VOLTAGE	57.6 ~ 67.2V
		Protection type : Hiccup mode, recovers automatically after fault condition is removed
	FAN CONTROL, O.T.P.	RTH1 or RTH2 \geq 50°C FAN ON, \leq 45°C FAN OFF, \geq 70°C output shutdown
FUNCTION	REMOTE CONTROL	RC+/RC-: Short = power on ; Open = power off
ENVIRONMENT	WORKING TEMP.	-10 ~ +50 $^{\circ}$ 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)
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes
0.4.5.5.7.4.0	SAFETY STANDARDS	UL60950-1, TUV EN60950-1, CCC GB4943(for 24V only) approved
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC
SAFETY &	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C/ 70% RH
EMC (Note 4)	EMI CONDUCTION & RADIATION	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	133.4K hrs min. MIL-HDBK-217F (25°C)
	DIMENSION	170*120*93mm (L*W*H)
	PACKING	1.9Kg; 8pcs/15.5Kg/1.06CUFT
NOTE	 All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. Tolerance : includes set up tolerance, line regulation and load regulation. 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 directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies." (as available on http://www.meanwell.com) Derating may be needed under low input voltages. Please check the derating curve for more details. 	



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