SP-480 Series

480W Single Output Enclosed Power Supply with PFC Function





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
- High power density 5.18w/in³
- Low profile: 43mm thickness
- Built-in remote ON/OFF control
- Built-in remote sense function
- · Active AC surge current limiting
- 3 years warranty

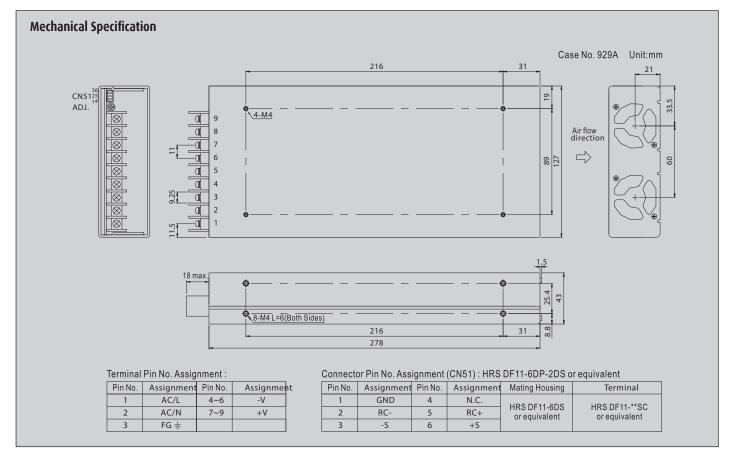


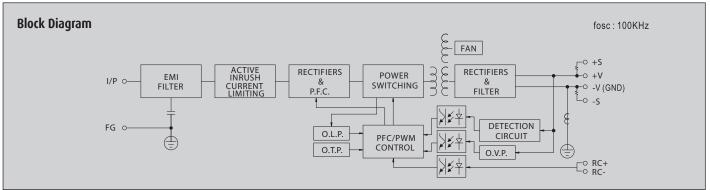
Specification

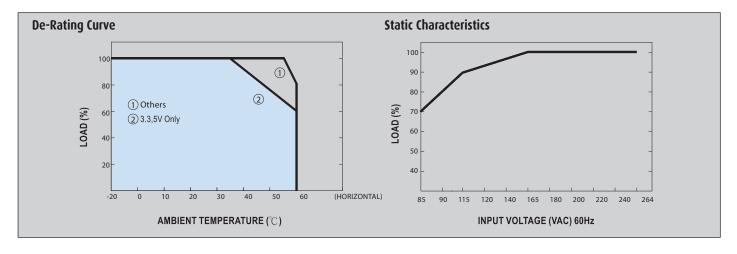
INPUT	Voltage	85V ~ 264VAC	120 ~ 370VDC						
	Frequency	47 ~ 63 Hz							
	Power Factor	PF>0.95/230VAC PF>0.98/115VAC at full load							
	Efficiency	73%	79%	85%	85%	87%	89%		
	AC Current	6.5A/115VAC	3.5A/230VAC						
	Inrush Current (Typ.)	20A/115VAC	40A/230VAC						
	Leakage Current	<2mA@240VAC							
ОИТРИТ	MODEL No.	SP-480-3.3	SP-480-5	SP-480-12	SP-480-15	SP-480-24	SP-480-48		
	Voltage	5V	5V	12V	15V	24V	48V		
	Rated Current	120A	85A	40A	32A	20A	10A		
	Current Range	0 ~ 120A	0 ~ 85A	0 ~ 43A	0 ~ 35A	0 ~ 22A	0 ~ 11A		
	Rated Power	600W	425W	480W	480W	480W	480W		
	Ripple Noise MAX.	120mVp-p	80mVp-p	120mVp-p	150mVp-p	150mVp-p	240mVp-p		
	Voltage Adj. Range	2.9~3.6V	4.5 ~ 5.5V	10.8~13.2V	13.5~18V	22~27.6V	41~56V		
	Voltage Tolerance	± 2.0%	± 2.0%	± 1.5%	± 1.5%	± 1.0%	± 1.0%		
	Line Regulation	± 0.5%	± 0.5%	± 0.3%	± 0.3%	± 0.2%	± 0.2%		
	Load Regulation	± 1.0%	± 1.0%	± 0.5%	± 0.5%	± 0.5%	± 0.5%		
	Setup Rise Time	1000ms, 80ms/230VAC 2500, 80ms/115VAC at full load							
	Holdup Time (Typ.)	18ms/230VAC	18ms/115VAC at	full load					
PROTECTION	Overload	87~103A	87~103A	45.15~58.05A	36.75~47.25A	23.1~29.7A	11.55~14.85A		
		Protection Type: Constant current limiting, recovers automatically after fault condition is removed							
	Over Voltage	3.8~4.45V	5.75~6.75V	13.8~16.2V	18~21V	28.8~33.6V	57.6~67.2V		
		Protection Type: Shut down o/p voltage, re-power on to recover							
	Over temperature	80°C (TSW1) detect on heatsink of power transistor 90°C (TSW2) detect on heatsink of power diode							
		Protection type: Shut down o/p voltage, recovers automatically after temperature goes down							
FUNCTION	Remote Control	RC+/RC-: 0~0.8=power 0N; 4~10V = Power 0FF							
ENVIRONMENT	Working Temp.	-20 ~ +65°C (Refer to "Derating Curve")							
	Working Humidity	20 ~ 90% RH non-condensing							
	Storage Temp., Humidity	-40 ~ +85°C, 10~95% RH							
	Temp. Co-efficient	±0.03% / °C (0~50°C)							
	Vibration	10~500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes							
SAFETY & EMC	Safety Standards	UL60950-1, TUV EN60950-1 approved							
	Withstand Voltage	I/P-0/P:3KVAC I/P-FG:1.5KVAC 0/P-FG:Short							
	Isolation Resistance		I/P-O/P, I/P-FG:100M 0hms / 500VDC / 25°C/70% RH						
	EMC Emission		Compliance to EN55022 (CISPR22) Class B, EN61000-3-2,-3						
	EMC Immunity	Compliance to EN61000-4-2,3,4,5,6,8,11, EN61000-6-2 (EN50082-2), light industry level, criteria A							
OTHERS	M.T.B.F.	120.5K hrs min. MIL-HDBK-217F (25°C)							
	Packaging	1.7Kg; 6pcs/11.3Kg/0.67CUFT							

- 1. All parameters not specially mentioned are based on 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. 33% buty cycle maximum within every 30 minutes. Average output power should not exceed the rated power.
 5. The power supply is considered a component which will be installed into 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."
 6. Derating may be needed under low input voltages. Please check the derating curve for more details.









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