



Features:

- Universal AC input / Full range
- Built in active PFC function, PF>0.95
- Protections:Short circuit/Over load/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

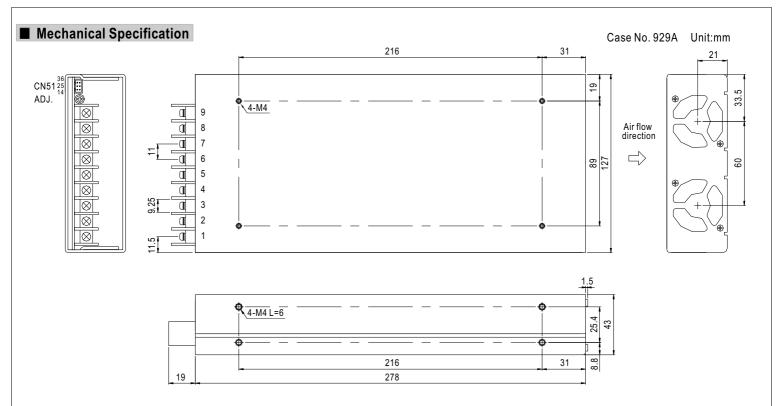
Residence CBCE

SPECIFICATION

MODEL		SP-480-3.3	SP-480-5	SP-480-12	SP-480-15	SP-480-24	SP-480-48	
	DC VOLTAGE	3.3V	5V	12V	15V	24V	48V	
	RATED CURRENT	85A	85A	40A	32A	20A	10A	
	CURRENT RANGE	0 ~ 85A	0 ~ 85A	0 ~ 43A	0 ~ 35A	0 ~ 22A	0 ~ 11A	
	RATED POWER	280.5W	425W	480W	480W	480W	480W	
	PEAK LOAD(10min.) Note.5	280.5W	425W	516W	525W	528W	528W	
	RIPPLE & NOISE (max.) Note.2	80mVp-p	80mVp-p	120mVp-p	150mVp-p	150mVp-p	240mVp-p	
UTPUT	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 Note.3	±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/230V/	AC 2500ms, 80m	ns/115VAC at full load				
	HOLD TIME (Typ.)	18ms/230VAC 18ms/115VAC at full load						
	VOLTAGE RANGE Note.7	85 ~ 264VAC 120 ~ 370VDC						
	FREQUENCY RANGE	47 ~ 63Hz						
	POWER FACTOR (Typ.)	PF>0.95/230VAC	PF>0.98/115VAC a	t full load				
IPUT	EFFICIENCY (Typ.)	73%	79%	85%	85%	87%	89%	
	AC CURRENT (Typ.)	6.5A/115VAC 3.5	A/230VAC		•			
	INRUSH CURRENT (Typ.) 20A/115VAC 40A/230VAC							
	LEAKAGE CURRENT	<2mA / 240VAC						
		87 ~ 103A	87 ~ 103A	45.15 ~ 58.05A	36.75 ~ 47.25A	23.1 ~ 29.7A	11.55 ~ 14.85A	
	OVER LOAD	Protection type : Constant current limiting, recovers automatically after conditions 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	
ROTECTION		Protection type : Shut down o/p voltage, re-power on to recover						
	OVER TEMPER : TOTAL	80°C (TSW1) Detect on heatsink of power transistor 90°C (TSW2) Detect on heatsink of power diode						
	OVER TEMPERATURE Note.4	Protection type: Shut down o/p voltage, recovers automatically after temperature goes down						
UNCTION					<u> </u>			
	WORKING TEMP.	-20 ~ +60°C (Refer to output load derating curve)						
	WORKING HUMIDITY	20 ~ 90% RH non-condensing						
NVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH						
	TEMP. COEFFICIENT	±0.03%/°C (0~50°C)						
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes						
	SAFETY STANDARDS	UL60950-1, TUV EN60950-1 Approved						
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG:Short						
AFETY &	ISOLATION RESISTANCE							
MC	EMI CONDUCTION & RADIATION							
lote 6)	HARMONIC CURRENT	Compliance to EN61000-3-2,-3						
	EMS IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204, EN61000-6-2 (EN50082-2) light industry level, criteria A						
	MTBF	120.5K hrs min. MIL-HDBK-217F (25°C)						
-	DIMENSION	278*127*43mm (L*W*H)						
	PACKING	1.7Kg; 6pcs/11.3Kg/0.67CUFT						
NOTE 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.					erature			
OIE		ed at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.						

- 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. TSW1: Detect on heatsink of power transistor.
- TSW2: Detect on heatsink of output diode.
- 5.33% Duty cycle maximum within every 30 minute. Average output power should not exceed the rated power.
- 6. 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.
- 7. Derating may be needed under low input voltages. Please check the derating curve for more details.





Terminal pin number assignment:

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	Pin No.	Assignment	Pin No.	Assignment	
1		AC/L	4~6	-V	
	2	AC/N	7~9	+V	
	3	FG			

Connector pin number assignment (CN51): JST B6B-PHDSS or equivalent

Pin No.	Assignment	Pin No.	Assignment	Mating Housing	Terminal
1	GND	4	N.C.	107 01100 0010	JST SPHD-002T-P0.5 or equivalent
2	RC-	5	RC+	JST PHDR-06VS or equivalent	
3	-S	6	+S	or oquivaloni	or oquivalent

