

# SMR-SP1500 1500W with PFC and Parallel Function PRETA

## Features

- AC input active surge current limiting
- Universal AC input / Full range
- Built-in active PFC function, PF > 0.95
- Current sharing up to 6000W(3+1)
- High Power density 8.3w/inch<sup>3</sup>
- Forced air cooling by built-in DC ball bearing fan
- Built-in 12V/0.1A auxiliary output for remote control
- Built-in remote ON-OFF control
- Built-in remote sense function
- 3 years warranty
- Protections : Short circuit / Overload / Over voltage / Over temp.
- Output voltage can be trimmed between 70~100% of the rated output voltage.



## Specifications

TYPE		SMR-SP1500-5	SMR-SP1500-12	SMR-SP1500-15	SMR-SP1500-24	SMR-SP1500-27	SMR-SP1500-48
OUTPUT	DC VOLTAGE	5V	12V	15V	24V	27V	48V
	RATED CURRENT	240A	125A	100A	63A	56A	32A
	CURRENT RANGE	0 ~ 240A	0 ~ 125A	0 ~ 100A	0 ~ 63A	0 ~ 56A	0 ~ 32A
	RATED POWER	1200W	1500W	1500W	1512W	1512W	1536W
	RIPPLE & NOISE (max.) Note.2	150mVp-p	150mVp-p	150mVp-p	150mVp-p	150mVp-p	200mVp-p
	VOLTAGE ADJ. RANGE	4.5 ~ 5.5V	10 ~ 13.5V	13.5 ~ 16.5V	20 ~ 26.4V	24 ~ 30V	43 ~ 56V
	VOLTAGE TOLERANCE Note.3	± 2.0%	± 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	± 2.0%	± 0.5%	± 0.5%	± 0.5%	± 0.5%	± 0.5%
	SETUP, RISE TIME	1500ms, 100ms at full load					
HOLD UP TIME (Typ.)	10ms at full load			14ms at full load		16ms at full load	
INPUT	VOLTAGE RANGE	90~ 264VAC 127 ~ 370VDC					
	FREQUENCY RANGE	47 ~ 63Hz					
	POWER FACTOR (Typ.)	0.95/230VAC 0.98/115VAC at full load					
	EFFICIENCY (Typ.)	80%	87%	87%	90%	90%	91%
	AC CURRENT (Typ.)	17A/115VAC 8A/230VAC					
	INRUSH CURRENT (Typ.)	30A/115VAC 60A/230VAC					
LEAKAGE CURRENT	<2.0mA/240VAC						
PROTECTION	OVER LOAD Note.5	105 ~ 135% rated output power Protection type : Constant current limiting unit will shut down O/P voltage after 5 sec. re-power on to recover					
	OVER VOLTAGE	5.75 ~ 6.75V	13.8 ~ 16.8V	17 ~ 20.5V	27.6 ~ 32.4V	31 ~ 36.5V	57.6 ~ 67.2V
	OVER TEMPERATURE	95 ±5 (TSW2) Detect on heatsink of power transistor Protection type : Shut down O/P voltage, recovers automatically after temperature goes down					
FUNCTION	AUXILIARY POWER (AUX)	12V@ 0.1A (Only for Remote ON/OFF control)					
	REMOTE ON/OFF CONTROL	Please see the Function Manual					
	DC OK SIGNAL	Please see the Function Manual					
	OUTPUT VOLTAGE TRIM	Please see the Function Manual					
	CURRENT SHARING	Please see the Function Manual					
ENVIRONMENT	WORKING TEMP., HUMIDITY	-20 ~ +70 (Refer to output load derating curve) 20 ~ +90% RH non-condensing					
	STORAGE TEMP., HUMIDITY	-40 ~ +85 , 10~95% RH					
	TEMP. COEFFICIENT	± 0.05%/ (0 ~ 50 )					
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes					
SAFETY (Note.4)	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG : 100M Ohms/500VDC					
	WITHSTAND VOLTAGE	I/P-O/P : 3KVAC I/P-FG : 1.5KVAC O/P-FG : 0.5KVAC					
OTHERS	MTBF	62.6Khrs min. MIL-HDBK-217F (25 )					
	DIMENSION	278 x 127 x 83.5mm (L x W x H)					
	PACKING	2.6Kg; 6pcs/16.6Kgs/1.54CUFT					
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. The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that is still meets EMC directives. 5. Derating may be under low input voltage. Please check the derating curve for more details.						