

SMR-SP1000 1000W with PFC and Parallel Function **PRETA**

Features

- AC input active surge current limiting
- Universal AC input / Full range
- Built-in 5V/0.5A auxiliary power
- Built-in active PFC function, PF > 0.95
- Forced air cooling by built-in DC fan
- High Power density 10.7w/inch³
- 1 U low profile 41 mm
- Built-in remote ON-OFF control
- Built-in remote sense function
- 3 years warranty ● DC OK Signal
- Protections : Short circuit / Overload / Over voltage / Over temp.
- Output voltage can be trimmed between 40~110% of the rated output voltage.



Specifications

TYPE		SMR-SP1000-12	SMR-SP1000-15	SMR-SP1000-24	SMR-SP1000-27	SMR-SP1000-48
OUTPUT	DC VOLTAGE	12V	15V	24V	27V	48V
	RATED CURRENT	60A	50A	40A	37A	21A
	CURRENT RANGE	0 ~ 60A	0 ~ 50A	0 ~ 40A	0 ~ 37A	0 ~ 21A
	RATED POWER	720W	750W	960W	999W	1008W
	RIPPLE & NOISE (max.) Note.2	150mVp-p	150mVp-p	150mVp-p	150mVp-p	150mVp-p
	VOLTAGE ADJ. RANGE	10 ~ 13.5V	13.5 ~ 16.5V	20 ~ 26.4V	24 ~ 30V	43 ~ 55V
	VOLTAGE TOLERANCE Note.3	± 1.0%	± 1.0%	± 1.0%	± 1.0%	± 1.0%
	LINE REGULATION	± 0.5%	± 0.5%	± 0.5%	± 0.5%	± 0.5%
	LOAD REGULATION	± 0.5%	± 0.5%	± 0.5%	± 0.5%	± 0.5%
	SETUP, RISE TIME	300ms, 50ms at full load				
HOLD UP TIME (Typ.)	16ms/230VAC	16ms/115VAC at full load				
INPUT	VOLTAGE RANGE Note.5	90~ 264VAC	127 ~ 370VDC			
	FREQUENCY RANGE	47 ~ 63Hz				
	POWER FACTOR (Typ.)	0.95/230VAC 0.98/115VAC at full load				
	EFFICIENCY (Typ.)	83%	85%	88%	88%	90%
	AC CURRENT (Typ.)	12A/115VAC 6A/230VAC				
	INRUSH CURRENT (Typ.)	25A/115VAC 40A/230VAC				
LEAKAGE CURRENT	< 2.0mA/240VAC					
PROTECTION	OVER LOAD	105 ~ 125% rated output power Protection type : Constant current limiting, recovers automatically after fault condition is removed				
	OVER VOLTAGE	13.8 ~ 16.8V	17 ~ 20.5V	27.6 ~ 32.4V	31 ~ 36.5V	56.6 ~ 66.2V
	OVER TEMPERATURE	85 ± 5 (TSW2) Detect on heatsink of O/P diode, 75 ± 5 (TSW1) Detect on heatsink of power transistor Protection type : Shut down O/P voltage, recovers automatically after temperature goes down				
FUNCTION	AUXILIARY POWER (AUX)	5V@ 0.5A(+0.5%, -8%)				
	REMOTE ON/OFF CONTROL Note.6	Power on : short between ON/OFF (pin6) & -S (pin2) on CN50 Power off : open between ON/OFF (pin6) & -S (pin2) on CN50				
	DC OK SIGNAL	Open collector signal low when PSU turn on, max. Sink current : 10mA				
	OUTPUT VOLTAGE TRIM Note.6	Adjustment of output voltage is possible between 40 ~ 110% of rated output				
CURRENT SHARING (CS) Note.7	Please refer to function manual					
ENVIRONMENT	WORKING TEMP., HUMIDITY	-20 ~ +60 (Refer to output load derating curve) -40 ~ +90% RH non-condensing				
	STORAGE TEMP., HUMIDITY	-40 ~ +85 , 10~95% RH				
	TEMP. COEFFICIENT	± 0.02%/ (0 ~ 50)				
	VIBRATION	10 ~ 500Hz, 5G 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	35Khrs min. MIL-HDBK-217F (25)				
	DIMENSION	295 x 127 x 41mm (L x W x H)				
	PACKING	1.95Kg; 6pcs/12.7Kgs/0.99CUFT				
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. 6. The power supply unit will have no output if the shorting connector is not assembled. It contains two shorting wires : one is from on/off (pin6) to -s(pin2) and the other is from Vco(pin8) to Vca(pin10). Please refer to function manual for details. 7. In parallel connection, maybe only one unit operates if the total output load is less than 5% of rated load condition.					