



#### Features :

- AC input 180 ~ 264VAC
- · AC input active surge current limiting
- High efficiency up to 90%
- Built-in active PFC function,PF>0.95
- Protections: Short circuit / Overload / Over voltage / Over temperature
   / Fan alarm
- Forced air cooling by built-in DC with fan speed control function
- Output voltage can be trimmed between 20~110% of the rated output voltage
- High power density 15.6W/inch<sup>3</sup>
- Current sharing up to 2 units
- Alarm signal output (relay contact and TTL signal)
- Built-in 12V/0.1A auxiliary output for remote control
- Built-in remote ON-OFF control
- Built-in remote sense function
- 3 years warranty



#### SPECIFICATION

MODEL		RSP-3000-12	RSP-3000-24	RSP-3000-48
	DC VOLTAGE	12V	24V	48V
OUTPUT	RATED CURRENT	200A	125A	62.5A
	CURRENT RANGE	0 ~ 200A	0~125A	0~62.5A
	RATED POWER	2400W	3000W	3000W
	RIPPLE & NOISE (max.) Note.2		150mVp-p	200mVp-p
	VOLTAGE ADJ. RANGE	10.8 ~ 13.2V	22 ~ 28V	43 ~ 56V
	VOLTAGE TOLERANCE Note.3		±1.0%	±1.0%
	LINE REGULATION	±0.5%	±0.5%	±0.5%
	LOAD REGULATION	±0.5%	±0.5%	±0.5%
	SETUP, RISE TIME	1000ms, 80ms at full load		
	HOLD UP TIME (Typ.)	10ms at full load		
INPUT	VOLTAGE RANGE	180 ~ 264VAC 254 ~ 370VDC		
	FREQUENCY RANGE	47 ~ 63Hz		
	POWER FACTOR (Typ.)	0.95/230VAC at full load		
	EFFICIENCY (Typ.)	86%	90%	90.5%
	AC CURRENT (Typ.)	20A/180VAC 16A/230VAC		
	INRUSH CURRENT (Typ.)	60A/230VAC		
	LEAKAGE CURRENT	<2.0mA/240VAC		
PROTECTION	OVERLOAD	100 ~ 110% rated output power		
		User adjustable continuous constant current	limiting or constant current limiting with	n delay shutdown after 5 seconds, re-power on to reco
	OVER VOLTAGE	13.8 ~ 16.8V	28.8 ~ 33.6V	57.6 ~ 67.2V
		Protection type : Shut down o/p voltage, re-power on to recover		
		90°C ±5°C (12V), 110°C ±5°C (24V), 105°C ±5°C (48V) (TSW1: detect on heatsink of power transistor)		
	OVER TEMPERATURE	90°C ±5°C (12V), 85°C ±5°C (24V), 75°C ±5°C (48V) (TSW2 : detect on heatsink of o/p diode)		
		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		
	ALARM SIGNAL OUTPUT	Please see the Function Manual		
	OUTPUT VOLTAGE TRIM	2.4 ~ 13.2V	4.8 ~ 28V	9.6 ~ 56V
	CURRENT SHARING	Please see the Function Manual	10 200	
ENVIRONMENT	WORKING TEMP.	$-20 \sim +70^{\circ}$ C (Refer to output load derating curve)		
		20~90% RH non-condensing		
	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH		
	TEMP. COEFFICIENT	±0.05%/°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		
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC		
EMC	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH		
(Note 4)	EMI CONDUCTION & RADIATION			
	HARMONIC CURRENT	Compliance to EN61000-3-2,-3		
		Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204, EN55024, light industry level, criteria A		
OTHERS	MTBF	104.5K hrs min. MIL-HDBK-217F (25℃)		
	DIMENSION	278*177.8*63.5mm (L*W*H)		
	PACKING	4Kg;4pcs/16Kg/1.89CUFT		
NOTE	<ol> <li>Ripple &amp; noise are measure</li> <li>Tolerance : includes set up</li> </ol>	Ily mentioned are measured at 230VAC in ad at 20MHz of bandwidth by using a 12" tolerance, line regulation and load regula lered a component which will be installed	twisted pair-wire terminated with a tion.	
	2			Ello Namo: BSB 2000 SBEC 2000 (















#### 4.Current Sharing

- (1)Parallel operation is available by connecting the units shown as below (+S,-S and CS are connected mutually in parallel):
- (2) The voltage difference among each output should be minimized that less than  $\pm 2\%$  is required.
- (3) The total output current must not exceed the value determined by the following equation. (Output current at parallel operation)=(The rated current per unit) x (Number of unit) x 0.9
- (4) In parallel operation 2 units is the maximum, please consult the manufacturer for other applications.
- (5) When remote sensing is used in parallel operation, the sensing wire must be connected only to the master unit.
- (6) Wires of remote sensing should be kept at least 10 cm from input wires.



(7) Under parallel operation, the O.L.P. function can only choose "constant current limiting with delay shut down". (8) Under parallel operation, the "output voltage trim" function is not available.

#### 5.Select O.L.P mode

- (1) Remove the shorting connector on CN3 that is shown in Fig 5.1, the O.L.P. mode will be "continuous constant current limiting".
- (2)Insert the shorting connector on CN3 that is shown in Fig 5.2, the O.L.P. mode will be "constant current limiting with delay shutdown after 5 seconds, re-power on to recover.

