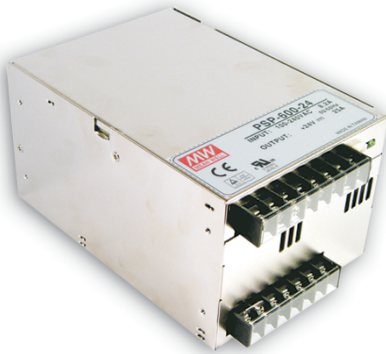




600W with PFC and Parallel Function

PSP-600 series



■ 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
- Current sharing up to 2400W(3+1)
- Built-in remote ON-OFF control
- Built-in remote sense function
- Fixed switching frequency at PFC:88KHz PWM:100KHz



SPECIFICATION

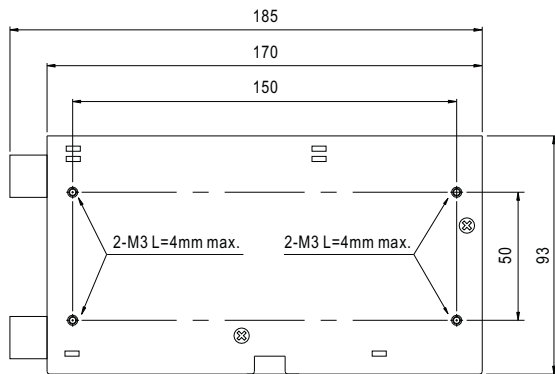
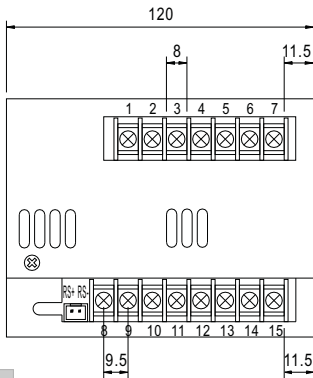
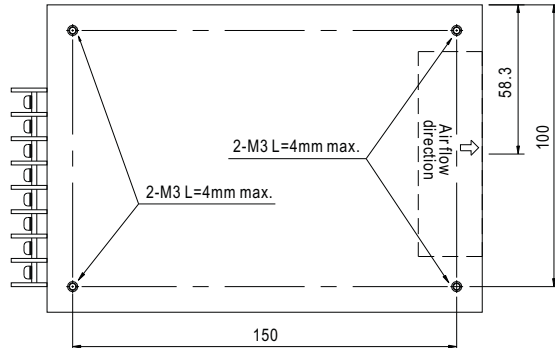
MODEL	PSP-600-5	PSP-600-12	PSP-600-13.5	PSP-600-15	PSP-600-24	PSP-600-27	PSP-600-48	
OUTPUT	DC VOLTAGE	5V	12V	13.5V	15V	24V	27V	48V
	RATED CURRENT	80A	50A	44.5A	40A	25A	22.2A	12.5A
	CURRENT RANGE	0 ~ 80A	0 ~ 50A	0 ~ 44.5A	0 ~ 40A	0 ~ 25A	0 ~ 22.2A	0 ~ 12.5A
	RATED POWER	400W	600W	600W	600W	600W	600W	600W
	RIPPLE & NOISE (max.) Note.2	180mVp-p	240mVp-p	240mVp-p	240mVp-p	240mVp-p	240mVp-p	300mVp-p
	VOLTAGE ADJ. RANGE	4.75 ~ 5.5V	10 ~ 13.2V	12 ~ 15V	13.5 ~ 18V	20 ~ 26.4V	24 ~ 30V	41 ~ 56V
	VOLTAGE TOLERANCE Note.3	±2.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%
	LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
	LOAD REGULATION	±1.0%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
SETUP, RISE, HOLD TIME	1500ms, 50ms, 16ms at full load							
INPUT	VOLTAGE RANGE	88 ~ 264VAC 124 ~ 370VDC						
	FREQUENCY RANGE	47 ~ 63Hz						
	POWER FACTOR	PF>0.95/230VAC		PF>0.98/115VAC at full load				
	EFFICIENCY(Typ.)	78%	84%	84%	84%	85%	86%	87%
	AC CURRENT	8.2A/115VAC	4.1A/230VAC					
	INRUSH CURRENT(max.)	25A/115VAC	50A/230VAC					
	LEAKAGE CURRENT	<1mA/240VAC						
PROTECTION	OVER LOAD	105 ~ 135% rated output power Protection type : Fold back current limiting, recovers automatically after fault condition is removed						
	OVER VOLTAGE	5.75 ~ 6.75V	13.8 ~ 16.2V	15.5 ~ 18.2V	18 ~ 21V	27.6 ~ 32.4V	31 ~ 36.5V	57.6 ~ 67.2V
	OVER TEMPERATURE	+5V: 95°C (TSW1) Detect on heatsink of power diode +5V: 95°C (TSW2) Detect on heatsink of power transistor +12 ~ +48V: 85°C (TSW1) Detect on heatsink of power diode +12 ~ +48V: 80°C (TSW2) Detect on heatsink of power transistor Protection type : Shut down o/p voltage, recovers automatically after temperature goes down, than re-power on to recover						
FUNCTION	REMOTE CONTROL	RC+/RC-: Short = power on ; Open = power off						
ENVIRONMENT	WORKING TEMP.	-20 ~ +50°C (Refer to output load derating curve)						
	WORKING HUMIDITY	20 ~ 90% RH non-condensing						
	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH						
	TEMP. COEFFICIENT	±0.03%/°C (0 ~ 50°C)						
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes						
SAFETY & EMC (Note 4)	SAFETY STANDARDS	UL60950-1, TUV EN60950-1 Approved						
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC						
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms/500VDC						
	EMI CONDUCTION & RADIATION	Compliance to EN55022 (CISPR22) Class B						
	HARMONIC CURRENT	Compliance to EN61000-3-2, -3						
	EMS IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204, Light industry level, criteria A						
OTHERS	MTBF	116.4K hrs min. MIL-HDBK-217F (25°C)						
	DIMENSION	170*120*93mm (L*W*H)						
	PACKING	1.9Kg; 8pcs/15.5Kg/1.06CUFT						
NOTE	<ol style="list-style-type: none"> 1. All parameters NOT specially mentioned are measured at 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. 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. 							

■ Mechanical Specification

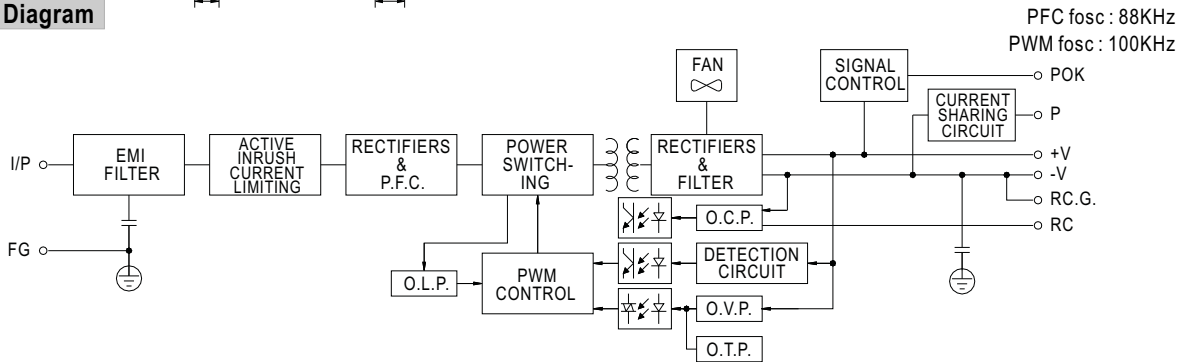
Case No.910A Unit:mm

Terminal Pin. No Assignment

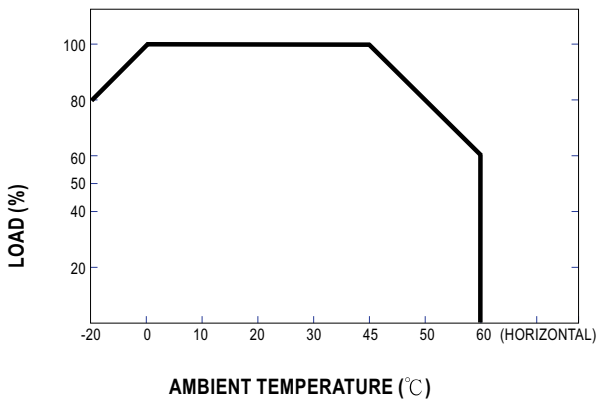
Pin No.	Assignment
1	AC/L
2	AC/N
3	FG \equiv
4	P(Current Share)
5	POK
6	R.C. G
7	R.C.
8~11	DC OUTPUT +V
12~15	DC OUTPUT -V



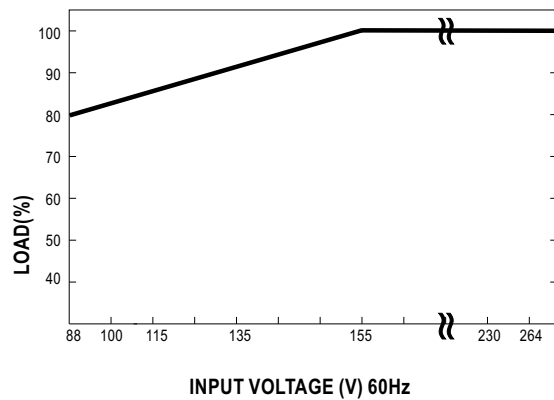
■ Block Diagram



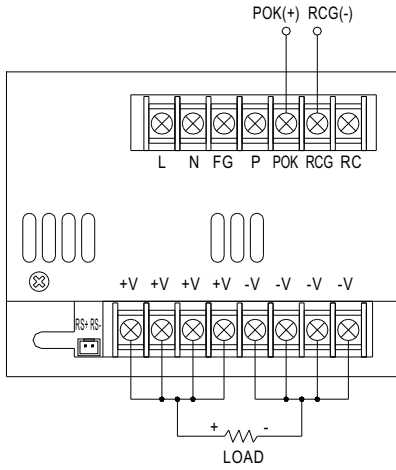
■ Derating Curve



■ Output Derating VS Input Voltage



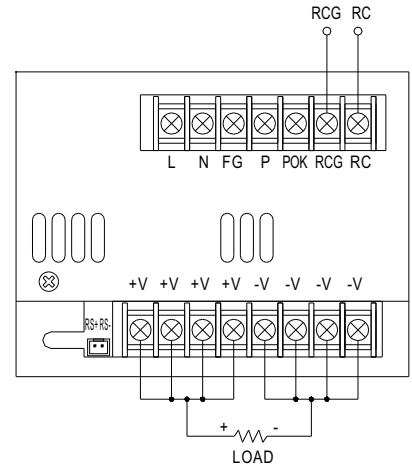
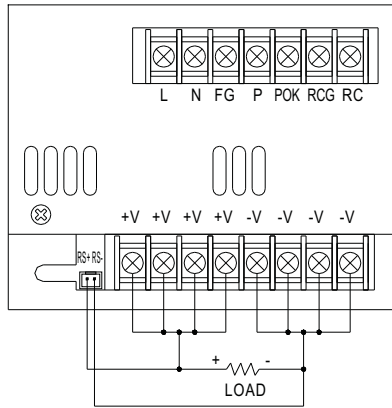
Control Terminal Instruction Manual



POK Signal

POK Signal is the voltage difference between "RCG" and "POK" pin output POK Signal for TTL level signal
 PSU turn on: 3.3V ~ 5.6V
 PSU turn off: 0V ~ 1V

Remote Sensing



Remote Control

Power ON: RCG and RC for short
 Power OFF: RCG and RC for open

Parallel Operation with Remote Sensing

