

MEAN WELL PSP-600 series 600W with PFC and Parallel **Function Owner's Manual**

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600W with PFC and Parallel Function

PSP-600 series







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SPECIFICATION

MODEL		PSP-600-5	PSP-600-12	PSP-600-13.5	PSP-600-15	PSP-600-24	PSP-600-27	PSP-600-48		
	DC VOLTAGE	5V	12V	13.5V	15V	24V	27V	48V		
OUTPUT	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	600.75W	600W	600W	599.4W	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		±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 TIME	1500ms, 50ms at full load								
	HOLD UP TIME (Typ.)	20ms at full load								
		88 ~ 264VAC 124 ~ 370VDC								
	FREQUENCY RANGE	47 ~ 63Hz								
	POWER FACTOR (Typ.)	0.95/230VAC	0.99/115VAC a	BV100000000	0.50/	000/	000/	070/		
INPUT	EFFICIENCY(Typ.)	79%	84%	85%	85%	86%	86%	87%		
	AC CURRENT (Typ.)	6.8A/115VAC 3.4A/230VAC								
	INRUSH CURRENT (Typ.)	20A/115VAC 40A/230VAC								
	LEAKAGE CURRENT	<1.3mA/240VAC								
	OVERLOAD	105 ~ 135% rate								
		Protection type	Constant current	limiting, recovers at	-	ault condition is rer	moved			
PROTECTION	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 VOLIAGE	Protection type :	Shut down o/p vo	Itage, re-power on t	o recover					
	OVER TEMPERATURE	Shut down o/p voltage, re-power on to recover								
FUNCTION	REMOTE CONTROL	RC+/RC-: Short = power on; Open = power off								
TONCTION	POK SIGNAL	PSU turn on: 3.3V ~ 5.6V PSU turn off: 0V ~ 1V								
ENVIRONMENT	WORKING TEMP.	-20 ~ +60°C (Refer to "Derating Curve")								
	WORKING HUMIDITY	20 ~ 90% RH non-condensing								
	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH non-condensing								
	TEMP. COEFFICIENT	±0.03%/°C (0~50°C)								
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes								
	SAFETY STANDARDS	UL62368-1, TUV BS EN/EN62368-1, CCC GB4943.1, BSMI CNS14336-1, AS/NZS62368.1, EAC TP TC 004 approved								
SAFETY &	WITHSTAND VOLTAGE									
EMC	ISOLATION RESISTANCE I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH									
(Note 4)	EMC EMISSION	Compliance to BS EN/EN55032 (CISPR32) Class B, BS EN/EN61000-3-2,-3, GB9245, GB17625.1, BSMI CNS13438, EAC TP TC 020								
	EMC IMMUNITY	Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN55035, light industry level, EAC TP TC 020								
OTHERS	MTBF	1132.9K hrs min. Telcordia SR-332 (Bellcore) ; 142.2K hrs min. MIL-HDBK-217F (25°C)								
	DIMENSION	170*120*93mm (L*W*H)								
	PACKING	1.9Kg; 8pcs/15.5Kg/1.00CUFT								
NOTE	2. Ripple & noise are measure 3. Tolerance : includes set up 4. The power supply is consid a 360mm*360mm metal pla perform these EMC tests, p 5. Derating may be needed ur 6. The operating altitude is 20 greater than 2000m (6500ft)	ally mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. red at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. tolerance, line regulation and load regulation. dered a component which will be installed into a final equipment. All the EMC tests are been executed by mounting the unit on ate with 1mm of thickness. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how to please refer to "EMI testing of component power supplies." (as available on http://www.meanwell.com) under low input voltages. Please check the derating curve for more details. On meters for CCC, 3000 meters for UL,TUV. The ambient temperature derating of 5°C/1000m is needed for operating altitude ft). r: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx								

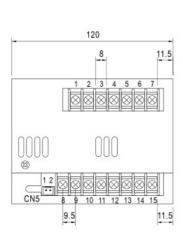
Mechanical Specification

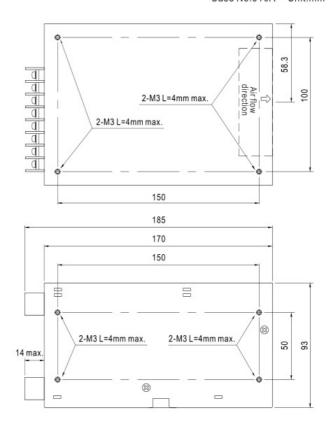
RS Connector(CN5): JST B-XH or equivalent

Pin No.	Assignment	Mating Housing	Terminal	
1 RS+		JST XHP	JST SXH-001T	
2	RS-	or equivalent	or equivalent	

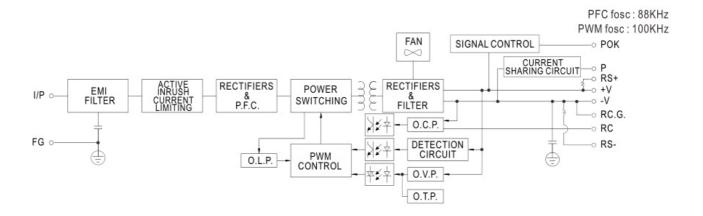
Terminal Pin No. Assignment

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

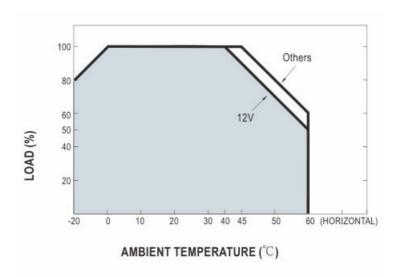




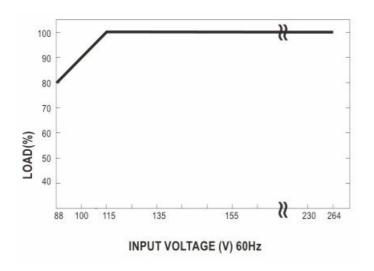
Block Diagram



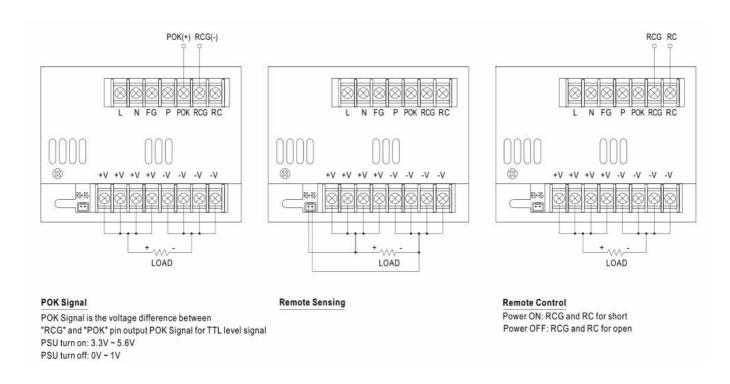
Derating Curve



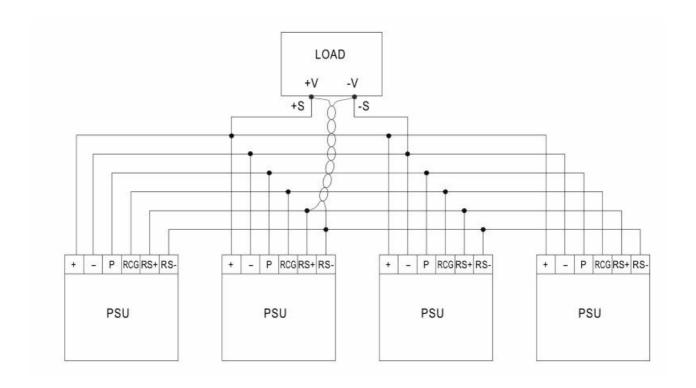
Output Derating VS Input Voltage



Control Terminal Instruction Manual



- 1. Parallel operation is available by connecting the units shown as below (+S,-S and P are connected mutually in parallel):
- 2. The voltage difference among each output should be minimized that less than 0.2V 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 4 units is the maximum, please consult the manufacture for other applications.
- 5. When remote sensing is used in parallel operation, the sensing wire must be connected only to the master unit.
- 6. When in parallel operation, the minimum output load should be greater than 3% of total output load. (Min. load > 3% rated current per unit x number of unit)



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Contents

1 Documents / Resources

1.1 References

Documents / Resources



MEAN WELL PSP-600 series 600W with PFC and Parallel Function [pdf] Owner's Manual PSP-600 series 600W with PFC and Parallel Function, PSP-600 series, 600W with PFC and Parallel Function, PtC and Parallel Function, Function

References

- MEAN WELL Switching Power Supply Manufacturer
- User Manual

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