



MEAN WELL

SWITCHING POWER SUPPLY

ISO-9001 CERTIFIED MANUFACTURER

PSP-300 SERIES

- .LOW COST, HIGH RELIABILITY
- .COOLING FAN ON/OFF AUTOMATICALLY
- .PARALLEL/SERIES OPERATION IS POSSIBLE
- .INTERNATIONAL AC INPUT RANGE
- .HIGH EFFICIENCY, LOW WORKING TEMPERATURE
- .SOFT-START CIRCUIT, LIMITING AC SURGE CURRENT
- .SHORT CIRCUIT, OVERLOAD, OVER VOLTAGE, OVER TEMP. PROTECTED
- .COMPACT SIZE, LIGHT WEIGHT
- .100% FULL LOAD BURN-IN TEST
- .105°C OUTPUT CAPACITOR
- .BUILT IN EMI FILTER, LOW RIPPLE NOISE
- .BUILT IN PFC CIRCUIT



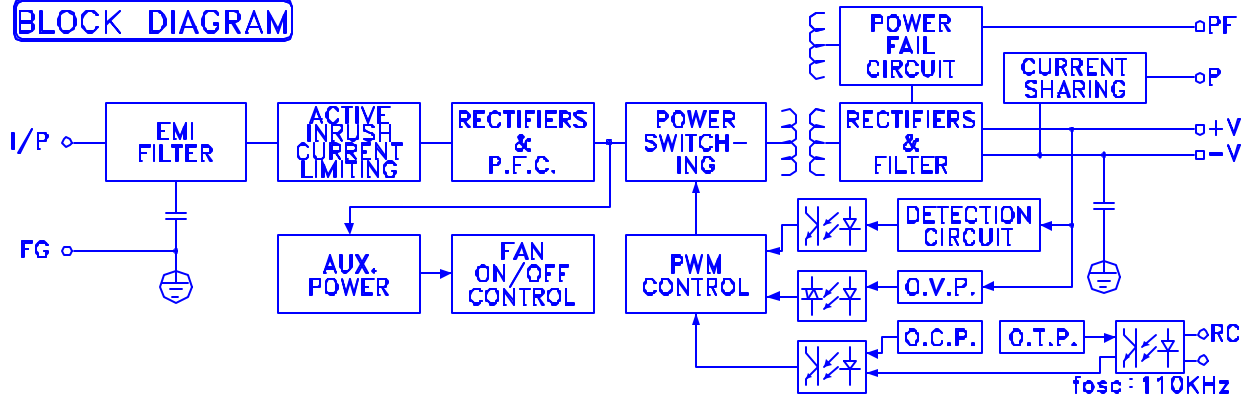
MODEL	PSP-300-12	PSP-300-13.5	PSP-300-24	PSP-300-27	PSP-300-48
SPECIFICATION					
DC OUTPUT VOLTAGE	12V	13.5V	24V	27V	48V
OUTPUT V. TOLERANCE	±1%	±1%	±1%	±1%	±1%
OUTPUT RATED CURRENT	25A	22A	12.5A	11A	6.5A
OUTPUT CURRENT RANGE	0-25A	0-22A	0-12.5A	0-11A	0-6.5A
RIPPLE & NOISE	200mVp-p	200mVp-p	200mVp-p	200mVp-p	240mVp-p
LINE REGULATION	±0.3%	±0.3%	±0.2%	±0.2%	±0.2%
LOAD REGULATION	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
DC OUTPUT POWER	300W	297W	300W	297W	312W
EFFICIENCY	82%	82%	84%	84%	86%
DC VOLTAGE ADJ.	10-13.2V	12-15V	20-26.4V	24-30V	41-56V
INPUT VOLTAGE RANGE	88-264VAC 47-63Hz; 124-370VDC				
AC CURRENT	4.5A/115V 2.3A/230V				
POWER FACTOR	0.95/100-240VAC				
INRUSH CURRENT	18A/115V 36A/230V				
LEAKAGE CURRENT	<3.5mA/240VAC				
OVERLOAD PROTECTION	105%-135% TYPE:CONSTANT CURRENT LIMITING RESET:AUTO RECOVERY				
OVER VOLTAGE PROTECTION	13.8-16.2V	15.5-18.2V	27.6-32.4V	31-36.5V	57.6-67.2V
FAN CONTROL, O.T.P.	RTH1 or RTH2>=50°C FAN ON, <=45°C FAN OFF, >=70°C OUTPUT SHUTDOWN				
TEMP. COEFFICIENT	±0.03% / °C (0-50°C)				
SETUP, RISE, HOLD UP TIME	1.5s, 50ms, 20ms				
VIBRATION	10-500Hz, 2G 10min./1cycle, PERIOD FOR 60min. EACH AXES				
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:500VDC / 100M Ohms				
WORKING TEMP., HUMIDITY	-10°C~+50°C(REFER TO OUTPUT DERATING CURVE), 20%-90% RH				
STORAGE TEMP., HUMIDITY	-20°C~+85°C, 10%-95% RH				
DIMENSION	170*120*93mm CASE:910				
WEIGHT	1.6Kgs				
SAFETY STANDARDS	UL1950, TUV EN60950 APPROVED				
EMC STANDARDS	CISPR22 (EN55022), IEC1000-4-2,3,4,5,6,8,11 IEC1000-3-2 VERIFICATION				

NOTE : 1.ALL PARAMETERS ARE SPECIFIED AT 230VAC INPUT, RATED LOAD, 25°C 70% RH. AMBIENT.
2.TOLERANCE : INCLUDE SET UP TOLERANCE, LINE REGULATION, LOAD REGULATION.
3.RIPPLE & NOISE ARE MEASURED AT 20MHz BY USING A 12" TWISTED PAIR TERMINATED WITH A 0.1uF & 47uF CAPACITOR.
4.LINE REGULATION IS MEASURED FROM LOW LINE TO HIGH LINE AT RATED LOAD.
5.LOAD REGULATION IS MEASURED FROM 0% TO 100% RATED LOAD.
6.C3,4,22,41,63,140,141 MUST BE REMOVED.
7.REFER TO OUTPUT DERATING CURVE VS INPUT VOLTAGE.

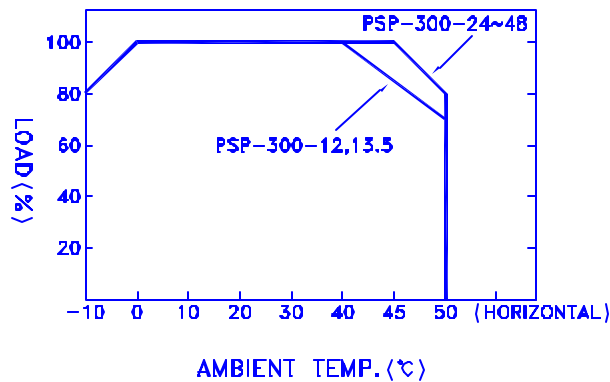
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PSP-300 SERIES

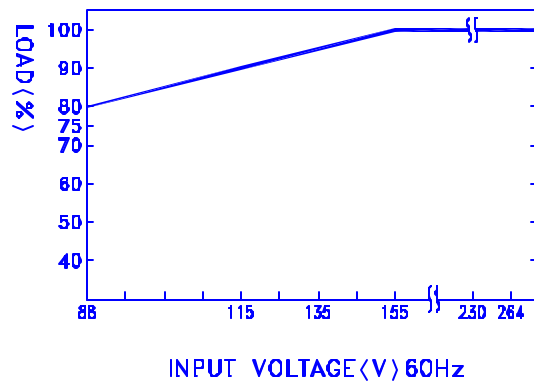
BLOCK DIAGRAM



OUTPUT DERATING VS T_a



OUTPUT DERATING VS INPUT VOLTAGE



DIMENSION (mm)

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CASE : 910
TERMINAL PIN NO. ASSIGNMENT
PIN 1,2 : AC INPUT
PIN 3 : FG
PIN 4 : P.F.
PIN 5 : P
PIN 6 : R.C G
PIN 7 : R.C.
PIN 8 : +S
PIN 9,10,11: DC OUTPUT +V
PIN12,13,14: DC OUTPUT -V
PIN 15 : -S

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