



# 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

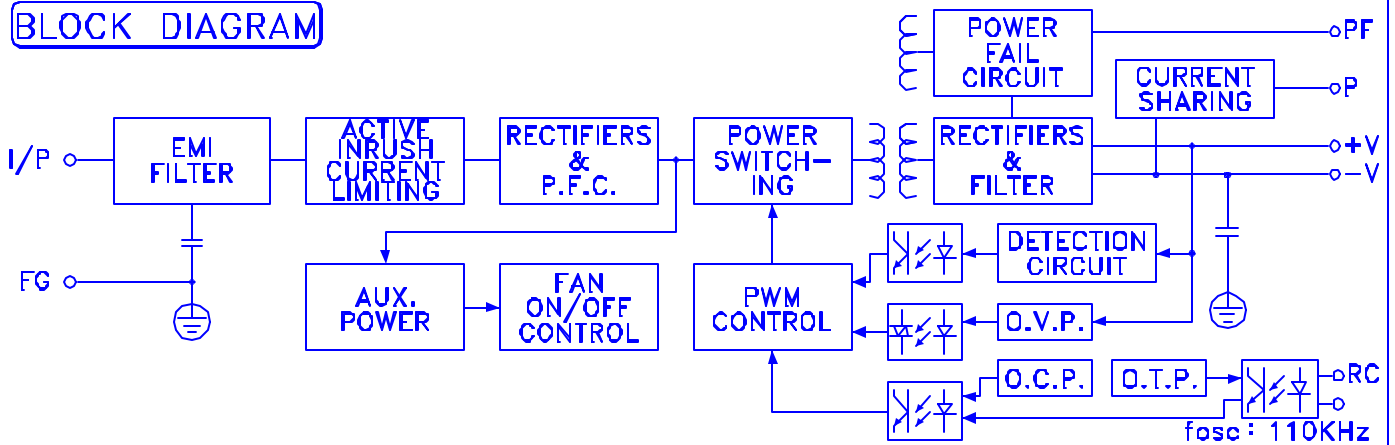
MODEL	PSP-300-12	PSP-300-13.5	PSP-300-24	PSP-300-27	PSP-300-48
DC OUTPUT VOLTAGE	12V	13.5V	24V	27V	48V
OUTPUT V. TOLERANCE	±1%	±1%	±1%	±1%	±1%
OUTPUT RATED CURRENT	25A	22A	12.5A	11A	6.5A
OUTPUT CURRENT RANGE	0-25A	0-22A	0-12.5A	0-11A	0-6.5A
RIPPLE & NOISE	200mVp-p	200mVp-p	200mVp-p	200mVp-p	240mVp-p
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	185*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.

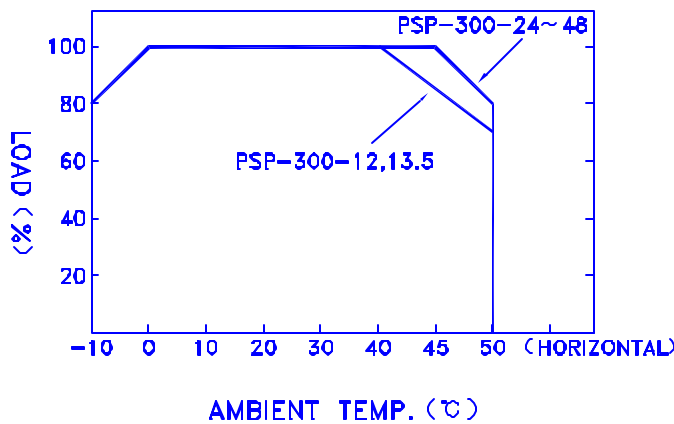
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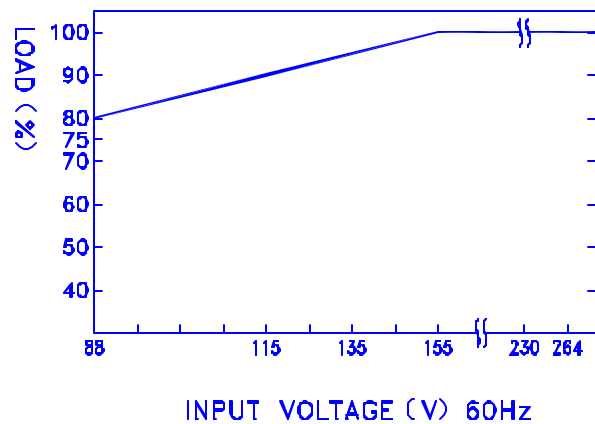
## BLOCK DIAGRAM



## OUTPUT DERATING VS $T_a$



## OUTPUT DERATING VS INPUT VOLTAGE



## DIMENSION (mm)

- ☒ CASE : 910
- ☒ TERMINAL PIN NO. ASSIGNMENT
- ☒ PIN 1,2 : AC INPUT
- ☒ PIN 3 : FG  $\oplus$
- ☒ 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
- ☒ PIN 12,13,14: DC OUTPUT -V
- ☒ PIN 15 : -S

