



MEAN WELL

SWITCHING POWER SUPPLY

ISO-9001 CERTIFIED MANUFACTURER

PA/PB-120
SERIES

S: Power supply
 A: Voltage detector
 B: current detector
 P: With PFC
 N: None PFC

PA-120 PB-13 C

□ : O.D.M number
 P : Open P.C.B.
 C : With case

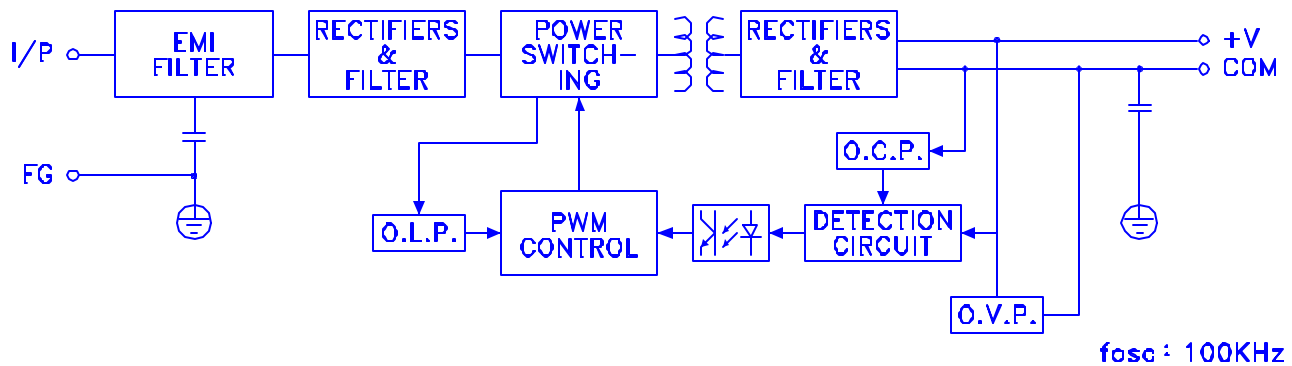
13: 13.8V
 27: 27.6V
 54: 55.2V

MODEL	PA/PB-120 -13	PA/PB-120 -27	PA/PB-120 -54
SPECIFICATION			
DC OUTPUT VOLTAGE	13.8V	27.6V	55.2V
OUTPUT RATED CURRENT	7.2A	4.3A	2.2A
OUTPUT CURRENT RANGE	0-7.2A	0-4.3A	0-2.2A
DC OUTPUT POWER	99.36W	118.68W	121.44W
EFFICIENCY	73%	79%	79%
INPUT VOLTAGE RANGE	88~132VAC / 176~264VAC SELECTED BY SWITCH 47~63Hz		
AC CURRENT	3A/115V 1.5A/230V		
POWER FACTOR	>0.65 (WITH PFC SERIES)		
INRUSH CURRENT	COLD START 30A/115V 60A/230V		
LEAKAGE CURRENT	<1.5mA/240VAC		
OVERLOAD PROTECTION	90~110% TYPE:CONSTANT CURRENT LIMITING RESET:AUTO RECOVERY		
OVER VOLTAGE PROTECTION	15~17V	30~35V	60~66V
OVER TEMP. PROTECTION	RTH2 /font>70°C ±10°C		
TEMP. COEFFICIENT	±0.05%/°C (0~+45°C)		
LED INDICATED	PA SERIES VOLTAGE 105%±1%↓:RED / 105%±1%↑:GREEN PB SERIES LOAD 46%±10%↓:GREEN / 46±10%↑:RED		
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~+45°C (REFER TO OUTPUT DERATING CURVE), 20%~90% RH		
STORAGE TEMP., HUMIDITY	-20°C~+85°C, 10%~95% RH		
DIMENSION	PCB TYPE:144*90*35mm EXTERNAL CASE TYPE:180*96*49mm (L*W*H)		
WEIGHT	PCB :0.36Kgs+PFC CHOKE:0.13Kgs+CASE:0.46Kgs		
SAFETY STANDARDS	TUV EN60950,UL1950 APPROVED		
EMC STANDARDS	CISPR22 (EN55022) CLASS B, EN61000-4-2,3,4,5,6,8,11; ENV50204, EN61000-3-2,-3;EN61000-3-2 WITH PFC SERIES		

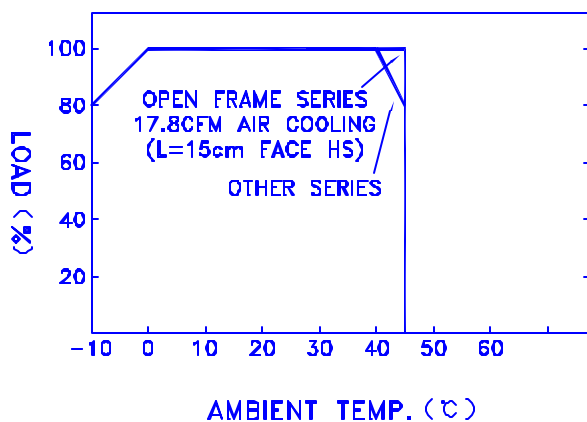
NOTE :

- ALL PARAMETERS ARE SPECIFIED AT 230VAC INPUT, RATED LOAD, 25°C 70% RH. AMBIENT.
- TOLERANCE GINCLUDE SET UP TOLERANCE, LINE REGULATION, LOAD REGULATION.
- RIPPLE & NOISE ARE MEASURED AT 20MHz BY USING A 12" TWISTED PAIR TERMINATED WITH A 0.1uF & 47uF CAPACITOR.
- LINE REGULATION IS MEASURED FROM LOW LINE TO HIGH LINE AT RATED LOAD.
- LOAD REGULATION IS MEASURED FROM 0% TO 100% RATED LOAD.
- WITH PFC I/P RANGE:95-132VAC / 190-264VAC.
- FOR OPEN P.C.B. WITH 17.8CFM MIN. FORCED AIR.

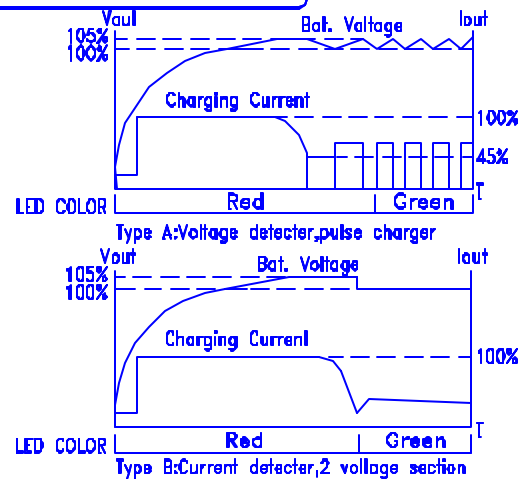
BLOCK DIAGRAM



OUTPUT DERATING



CHARGING CURVE



DIMENSION (mm)

CASE DIMENSION

- ☒ OUTPUT CABLE LENGTH=183cm±5cm
- ☒ PIN1: DC OUTPUT +V
- ☒ PIN2: DC OUTPUT -V

PCB DIMENSION

- ☒ TERMINAL PIN NO. ASSIGNMENT
- ☒ CN1: JST B3P-VH(AC INPUT)
- ☒ CN3: JST B4P-VH(DC OUTPUT)
 - ☒ PIN1,2: DCOUTPUT -V
 - ☒ PIN3,4: DCOUTPUT +V
- ☒ CN4: JST B2B-XH(12VDC FAN OUTPUT)
 - ☒ PIN 1: DC OUTPUT +V
 - ☒ PIN 2: DC OUTPUT -V
- ☒ CN5: JST B2P-VH(115/230V SELSCTED BY SWITCH)
 - ☒ SHORT FOR 115V
 - ☒ OPEN FOR 230V

MATING CONNECTORS

- ☒ CN1,3,5 MATING CONNECTOR TYPE JST VHR SERIES OR EQUIVALENT WITH JST SVH-21T-P1.1 OR EQUIVALENT CRIMP TERMINALS.
- ☒ CN4 MATING CONNECTOR TYPE JST XHP SERIES OR EQUIVALENT WITH JST SXH-001T-P0.6 OR EQUIVALENT CRIMP TERMINALS.

