

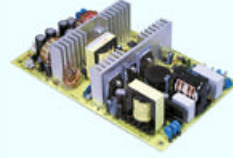


MEAN WELL

SWITCHING POWER SUPPLY
ISO-9001 CERTIFIED MANUFACTURER

PPQ-100 SERIES

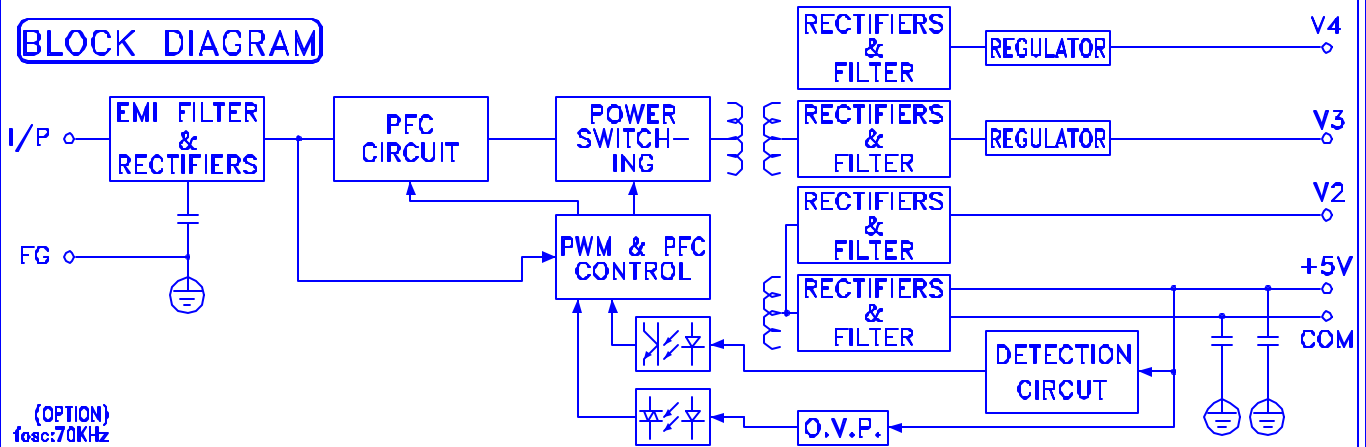
.LOW COST, HIGH RELIABILITY .UNIVERSAL AC INPUT/FULL RANGE
BUILT IN EMI FILTER .AC INPUT SURGE CURRENT LIMITING
BUILT IN ACTIVE PFC FUNCTION
PROTECTIONS:SHORT CIRCUIT/OVER LOAD/OVER VOLTAGE



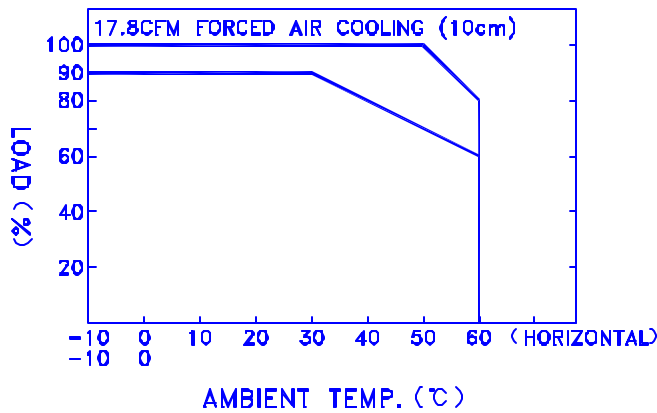
MODEL	PPQ-100B				PPQ-100C				PPQ-100D			
	CH1	CH2	CH3	CH4	CH1	CH2	CH3	CH4	CH1	CH2	CH3	CH4
DC OUTPUT VOLTAGE	5V	12V	-12V	-5V	5V	15V	-15V	-5V	5V	24V	12V	-12V
OUTPUT V. TOLERANCE	±3%	±8%	±5%	±5%	±3%	+10, -6%	±5%	±5%	±3%	±8%	±5%	±5%
OUTPUT RATED CURRENT	10A	3.4A	0.6A	0.6A	10A	2.6A	0.6A	0.6A	8A	2.0A	0.6A	0.6A
OUTPUT CURRENT RANGE	2-15A	0.3-4A	0-1A	0-1A	2-15A	0.3-4A	0-1A	0-1A	2-10A	0.3-4A	0-1A	0-1A
RIPPLE & NOISE (p-p)	100mV	150mV	100mV	100mV	100mV	150mV	100mV	100mV	100mV	200mV	100mV	100mV
LINE REGULATION	±1%	±2%	±2%	±1%	±1%	±2%	±2%	±1%	±1%	±2%	±2%	±1%
LOAD REGULATION	±2%	±6%	±2%	±2%	±2%	±6%	±2%	±2%	±2%	±6%	±2%	±2%
DC OUTPUT MAX. POWER	101W				101W				102.4W			
EFFICIENCY	75%				76%				78%			
DC VOLTAGE ADJ.	CH1:±10%,5%											
INPUT VOLTAGE RANGE	90-264VAC 47-63Hz; 127-370VDC											
AC CURRENT	1.65A/115V 0.85A/230V											
INRUSH CURRENT	COLD START 40A											
LEAKAGE CURRENT	<3.5mA/240VAC											
OVERLOAD PROTECTION	105%-135% RESET:AUTO RECOVERY											
OVER VOLTAGE PROTECTION	CH1:5.75-6.75V											
OVER TEMP. PROTECTION	-----											
TEMP. COEFFICIENT	±0.03% / °C (0-50°C)											
SETUP, RISE, HOLD UP TIME	1.2s,50ms,16ms @115VAC / 800ms, 50ms, 16ms @230VAC											
POWER FACTOR	PF>0.95/230VAC, PF>0.98/115VAC											
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 / 50M Ohms											
WORKING TEMP., HUMIDITY	-10°C~+60°C (REFER TO OUTPUT DERATING CURVE), 20%-90% RH											
STORAGE TEMP., HUMIDITY	-20°C~+85°C, 10%-95% RH											
DIMENSION	7**4.25**1.6" (177.8*107.95*40.64mm)											
WEIGHT	0.5Kgs											
SAFETY STANDARDS	UL1950, TUV EN60950 APPROVED											
EMC STANDARDS	EN55022 CLASS B, EN61000-4-2,3,4,5,6,8,11; ENV50204, EN61000-3-2,-3 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 20% TO 100% RATED LOAD, AND OTHER OUTPUT AT 60% RATED LOAD.
6.EACH OUTPUT PROVIDE UP TO MAXIMUM CURRENT, BUT TOTAL LOAD CAN NOT EXCEED MAX. OUTPUT POWER.

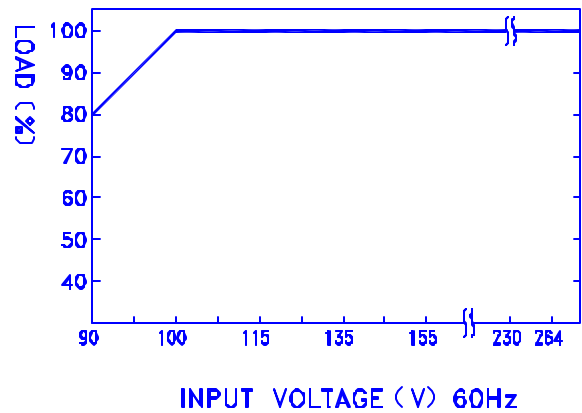
BLOCK DIAGRAM



OUTPUT DERATING VS T_a



OUTPUT DERATING VS INPUT VOLTAGE



DIMENSION (mm)

☒ TERMINAL PIN NO. ASSIGNMENT

- ☒ CN1 : JST B5P-VH
PIN 1,3,5 : AC INPUT
- ☒ CN2 : JST B5P-VH
PIN 1,2 : DC OUTPUT V2
PIN 4 : DC OUTPUT V3
PIN 5 : DC OUTPUT V4
- ☒ CN3 : JST B8P-VH
PIN 1,2,3,4 : DC OUTPUT V1
PIN 5,6,7,8 : DC OUTPUT COM

☒ MATING CONNECTORS

- ☒ CN1,2,3 MATING CONNECTOR TYPE
JST VHR SERIES OR EQUIVALENT WITH
JST SVH-21T-1.1 OR EQUIVALENT
CRIMP TERMINALS.

