



100W Quad Output with PFC Function

PPQ-100 series



■ Features :

- Universal AC input / Full range
- Built-in active PFC function, PF>0.95
- Protections: Short circuit / Overload / Over voltage
- Cooling by free air convection
- 100% full load burn-in test
- Fixed switching frequency at 70KHz(Optional)
- 3 years warranty



CB CE

SPECIFICATION

MODEL	PPQ-100B				PPQ-100C				PPQ-100D											
OUTPUT	OUTPUT NUMBER	CH1	CH2	CH3	CH4	CH1	CH2	CH3	CH4	CH1	CH2	CH3	CH4							
	DC VOLTAGE	5V	12V	-12V	-5V	5V	15V	-15V	-5V	5V	24V	12V	-12V							
	RATED CURRENT	10A	3.4A	0.6A	0.6A	10A	2.6A	0.6A	0.6A	8A	2A	0.6A	0.6A							
	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							
	RATED POWER (max.)	101W				101W				102.4W										
	RIPLPE & NOISE (max.) Note.2	100mVp-p	150mVp-p	100mVp-p	100mVp-p	100mVp-p	150mVp-p	100mVp-p	100mVp-p	100mVp-p	200mVp-p	100mVp-p	100mVp-p							
	VOLTAGE ADJ. RANGE	CH1:4.75 ~ 5.5V																		
	VOLTAGE TOLERANCE Note.3	±3.0%	±8.0%	±5.0%	±5.0%	±3.0%	±10.6%	±5.0%	±5.0%	±3.0%	±8.0%	±5.0%	±5.0%							
	LINE REGULATION	±1.0%	±2.0%	±2.0%	±1.0%	±1.0%	±2.0%	±2.0%	±1.0%	±1.0%	±2.0%	±2.0%	±1.0%							
	LOAD REGULATION	±2.0%	±6.0%	±2.0%	±2.0%	±2.0%	±6.0%	±2.0%	±2.0%	±2.0%	±6.0%	±2.0%	±2.0%							
INPUT	SETUP, RISE TIME	800ms, 50ms/230VAC				1200ms, 50ms/115VAC at full load														
	HOLD UP TIME (Typ.)	24ms/230VAC				24ms/115VAC at full load														
	VOLTAGE RANGE	90 ~ 264VAC				127 ~ 370VDC														
	FREQUENCY RANGE	47 ~ 63Hz																		
	POWER FACTOR (Typ.)	PF>0.95/230VAC				PF>0.98/115VAC at full load														
	EFFICIENCY(Typ.)	75%				76%				78%										
	AC CURRENT (Typ.)	1.65A/115VAC				0.85A/230VAC														
PROTECTION	INRUSH CURRENT (Typ.)	COLD START 30A																		
	LEAKAGE CURRENT	<3.5mA/240VAC																		
ENVIRONMENT	OVERLOAD	105% ~ 135% rated output power																		
		Protection type : Hiccup mode, recovers automatically after fault condition is removed																		
SAFETY & EMC (Note 4)	OVER VOLTAGE	CH1: 5.75 ~ 6.75V																		
		Protection type : Shut down o/p voltage, re-power on to recover																		
SAFETY & EMC (Note 4)	WORKING TEMP.	-10 ~ +60°C (Refer to output load derating curve)																		
	WORKING HUMIDITY	20 ~ 90% RH non-condensing																		
	STORAGE TEMP., HUMIDITY	-20 ~ +85°C, 10 ~ 95% RH																		
	TEMP. COEFFICIENT	±0.03%/°C (0 ~ 50°C)																		
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes																		
OTHERS	SAFETY STANDARDS	UL60950-1, TUV EN60950-1 approved																		
	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:100M Ohms/500VDC																		
	EMI CONDUCTION & RADIATION	Compliance to EN55022 (CISPR22) Class B																		
	HARMONIC CURRENT	Compliance to EN61000-3-2,-3																		
NOTE	EMS IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204, EN55024, light industry level, criteria A																		
	MTBF	162.5K hrs min. MIL-HDBK-217F (25°C)																		
	DIMENSION	177.8*107.95*38mm (L*W*H)																		
	PACKING	0.62Kg; 24pcs/15.9Kg/1.34CUFT																		
		1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. 3. Tolerance : includes set up tolerance, line regulation and load regulation. 4. The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.																		

