

100W Quad Output with PFC Function

PPQ-1003 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 PFC:67KHz PWM:134KHz(Optional)
- 2 years warranty



SPECIFICATION

MODEL		PPQ-1003A				PPQ-1003B					
	OUTPUT NUMBER	CH1	CH2	CH3	CH4	CH1	CH2	CH3	CH4		
OUTPUT	DC VOLTAGE	3.3V	5V	12V	-5V	3.3V	5V	12V	-12V		
	RATED CURRENT	10A	10A	2A	0.3A	10A	10A	2A	0.3A		
	CURRENT RANGE	0 ~ 15A	2~15A	0.2 ~ 3A	0 ~ 1A	0~15A	2 ~ 15A	0.2 ~ 3A	0~1A		
	RATED POWER	108.5W				110.6W					
	RIPPLE & NOISE (max.) Note.2	100mVp-p	100mVp-p	150mVp-p	100mVp-p	100mVp-p	100mVp-p	150mVp-p	120mVp-p		
	VOLTAGE ADJ. RANGE	3.14 ~ 3.63V	4.75 ~ 5.5V			3.14 ~ 3.63V	4.75~5.5V				
	VOLTAGE TOLERANCE Note.3	±3.0%	±3.0%	±6.0%	±6.0%	±3.0%	±3.0%	±6.0%	±6.0%		
	LINE REGULATION	±1.0%	±1.0%	±2.0%	±1.0%	±1.0%	±1.0%	±2.0%	±1.0%		
	LOAD REGULATION	±2.0%	±2.0%	±6.0%	±1.0%	±2.0%	±2.0%	±6.0%	±1.0%		
	SETUP, RISE TIME	800ms, 50ms at full load									
	HOLD UP TIME (Typ.)	18ms at full load									
INPUT	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.)	72%									
	AC CURRENT (Typ.)	1.65A/115VAC 0.85A/230VAC									
	INRUSH CURRENT (Typ.)	COLD START 40A									
	LEAKAGE CURRENT	<1mA/240VAC									
PROTECTION		105% ~ 135% rated output power									
	OVER LOAD	Protection type : Constant current limiting, recovers automatically after fault condition is removed									
	OVER VOLTAGE	CH1: 3.6 ~ 4.3V CH2: 5.75 ~ 6.75V									
		Protection type : Shut down o/p voltage, re-power on to recover									
	WORKING TEMP.	$-10 \sim +60^{\circ}C$ (Refer to output load derating curve)									
	WORKING HUMIDITY	20 ~ 90% RH non-condensing									
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-20 ~ +85°C , 10 ~ 95% RH									
SAFETY & EMC (Note 4)	TEMP. COEFFICIENT	±0.03%/°C (0~50°C)									
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes									
	SAFETY STANDARDS	UL60950-1, TL	V EN60950-1 a	pproved	-						
	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 / 25°C / 70% RH									
	EMI CONDUCTION & RADIATION										
	HARMONIC CURRENT	Compliance to	EN61000-3-2,-3								
	EMS IMMUNITY	•			50204, EN55024	, light industry lev	vel, criteria A				
OTHERS	MTBF	150.6K hrs min	. MIL-HDBK-	217F (25℃)							
	DIMENSION	177.8*107.95*38mm (L*W*H)									
	PACKING	0.62Kg; 24pcs/15.5Kg/1.34CUFT									
NOTE	 Ripple & noise are measure Tolerance : includes set up The power supply is consid 	OT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. re measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. des set up tolerance, line regulation and load regulation. y is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies." http://www.meanwell.com)									



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SPECIFICATION

MODEL		PPQ-1003C				PPQ-1003D					
OUTPUT	OUTPUT NUMBER	CH1	CH2	CH3	CH4	CH1	CH2	CH3	CH4		
	DC VOLTAGE	3.3V	5V	15V	-15V	3.3V	5V	12V	24V		
	RATED CURRENT	10A	10A	1.5A	0.3A	10A	10A	2A	0.3A		
	CURRENT RANGE	0 ~ 15A	2~15A	0.2 ~ 3A	0 ~ 1A	0~15A	2~15A	0.2 ~ 3A	0~1A		
	RATED POWER	110W				114.2W					
	RIPPLE & NOISE (max.) Note.2	100mVp-p	100mVp-p	180mVp-p	150mVp-p	100mVp-p	100mVp-p	150mVp-p	150mVp-p		
	VOLTAGE ADJ. RANGE	3.14 ~ 3.63V	4.75 ~ 5.5V			3.14 ~ 3.63V	4.75 ~ 5.5V				
	VOLTAGE TOLERANCE Note.3	±3.0%	±3.0%	+10,-5%	±6.0%	±3.0%	±3.0%	±6.0%	±6.0%		
	LINE REGULATION	±1.0%	±1.0%	±2.0%	±1.0%	±1.0%	±1.0%	±2.0%	±1.0%		
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	SETUP, RISE TIME	800ms, 50ms at full load									
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	TEMP. COEFFICIENT	±0.03%/°C (0~50°C)									
	VIBRATION	- (- /	period for 60mi	n. each along X,	Y, Z axes					
	SAFETY STANDARDS		V EN60950-1 a	•	,						
SAFETY & EMC (Note 4)	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 / 25°C/ 70% RH									
	EMI CONDUCTION & RADIATION										
	HARMONIC CURRENT	Compliance to	EN61000-3-2,-3	3							
	EMS IMMUNITY	Compliance to	EN61000-4-2,3	4,5,6,8,11; EN\	/50204, EN55024	1, light industry lev	vel, criteria A				
OTHERS	MTBF	-	. MIL-HDBK-								
	DIMENSION	177.8*107.95*3		/							
	PACKING		15.5Kg/1.34CU	FT							
NOTE	 All parameters NOT special Ripple & noise are measure Tolerance : includes set up The power supply is consid 	specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. neasured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. set up tolerance, line regulation and load regulation. considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies." //www.meanwell.com)									



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