



320W Quad Output with PFC Function

QP-320 series



■ Features :

- Universal AC input / Full range
- Built-in active PFC function, PF>0.95
- Protections: Short circuit / Overload / Over voltage / Over temperature
- CH1 & CH2 can be adjusted from -5% ~ +10%
- With power good and fail signal output
- Built-in remote sense function for CH1 & CH2
- LED indicator for power on
- 100% full load burn-in test
- 20A peak load capability for 24V channel
- 3 years warranty

User's Manual



UL62368-1



BS EN/EN62368-1



TPTC004

SPECIFICATION

MODEL	QP-320D				QP-320F										
OUTPUT	OUTPUT NUMBER	CH1	CH2	CH3	CH4	CH1	CH2	CH3	CH4						
	DC VOLTAGE	5V	12V	24V	-12V	5V	15V	24V	-15V						
	RATED CURRENT	20A	10A	3A	2A	20A	8A	3A	1.6A						
	CURRENT RANGE	2.5 ~ 20A	0 ~ 10A	0.2 ~ 5A	0.2 ~ 2A	2.5 ~ 20A	0 ~ 10A	0.2 ~ 5A	0.2 ~ 1.6A						
	PEAK CURRENT	20A	10A	20A,≤1ms(Note5)	2A	20A	10A	20A,≤1ms(Note5)	1.6A						
	RATED POWER	316W													
	ripple & noise (max.) Note.2	100mVp-p	150mVp-p	150mVp-p	150mVp-p	100mVp-p	150mVp-p	150mVp-p	150mVp-p						
	VOLTAGE ADJ. RANGE	CH1,2:+10,-5%													
	VOLTAGE TOLERANCE Note.3	±3.0%	±3.0%	+10,-6%	±10%	±3.0%	±3.0%	+10,-6%	±10%						
	LINE REGULATION	±1.0%	±2.0%	±2.0%	±3.0%	±1.0%	±2.0%	±2.0%	±3.0%						
	LOAD REGULATION	±2.0%	±3.0%	±6.0%	±8.0%	±2.0%	±3.0%	±6.0%	±8.0%						
	SETUP, RISE TIME	800ms,50ms/230VAC		3000ms,50ms/115VAC at full load											
	HOLD UP TIME (Typ.)	16ms 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.)	83%													
	AC CURRENT (Typ.)	4A/115VAC 2A/230VAC													
	INRUSH CURRENT (Typ.)	25A/115VAC 45A/230VAC													
PROTECTION	LEAKAGE CURRENT	<2mA / 240VAC													
	OVERLOAD	105 ~ 150% rated output power Protection type : Fold back current limiting, recovers automatically after fault condition is removed													
	OVER VOLTAGE	CH1:5.75 ~ 6.75V CH2:13.8 ~ 16.2V				CH1:5.75 ~ 6.75V CH2:17.25 ~ 20.25V									
	OVER TEMPERATURE	Protection type : Shut down o/p voltage, re-power on to recover													
FUNCTION	POWER GOOD / POWER FAIL	10ms/1ms													
ENVIRONMENT	WORKING TEMP.	-10 ~ +70°C (Refer to "Derating Curve")													
	WORKING HUMIDITY	20 ~ 90% RH non-condensing													
	STORAGE TEMP., HUMIDITY	-20 ~ +85°C, 10 ~ 95% RH non-condensing													
	TEMP. COEFFICIENT	±0.03%/°C (0 ~ 50°C)													
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes													
SAFETY & EMC (Note 6)	SAFETY STANDARDS	UL62368-1, TUV BS EN/EN62368-1, EAC TP TC 004 approved													
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC													
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH													
	EMC EMISSION	Compliance to BS EN/EN55032 (CISPR32) Class B, BS EN/EN61000-3-2,-3, EAC TP TC 020													
	EMC IMMUNITY	Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN55024, light industry level, criteria A, EAC TP TC 020													
OTHERS	MTBF	213.5 hrs min. MIL-HDBK-217F (25°C)													
	DIMENSION	215*115*50mm (L*W*H)													
	PACKING	1.2Kg; 12pcs/15.4Kg/0.9CUFT													
NOTE	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. Every output channel can provide up to the maximum current, but total load can't exceed the rated output power. 5. CH3(24V) peak current 20A,≤1ms, repeatable in every 100ms. CH3(24V) output must be above 16V in the period of peak current. 6. The power supply is considered a component which will be installed into a final equipment. All the EMC tests are been executed by mounting the unit on a 360mm*360mm metal plate with 1mm of thickness. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies." (as available on http://www.meanwell.com) 7. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft). ※ Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx														

