



■ Features :

- Universal AC input / Full range
- Built-in active PFC function, PF>0.95
- * Protections: Short circuit / Overload / Over voltage / Over temperature
- $^{\bullet}$ CH1 & CH2 can be adjusted from -5% $^{\sim}$ +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









CDECIFICATION

PECIFIC	ATION						UL62368-1 BS EN/EN62368-1 TPTC004			
MODEL		QP-320D				QP-320F				
ОИТРИТ	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								
	LEAKAGE CURRENT	<2mA / 240VAC								
PROTECTION		105 ~ 150% rated output power								
	OVERLOAD	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								
		Protection type: Shut down o/p voltage, re-power on to recover								
	OVER TEMPERATURE	Shut down o/p voltage, recovers automatically after temperature goes down								
FUNCTION	POWER GOOD / POWER FAIL	10ms/1ms								
-	WORKING TEMP.	-10 ~ +70°C (Refer to "Derating Curve")								
	WORKING HUMIDITY	20 ~ 90% RH non-condensing								
	STORAGE TEMP., HUMIDITY	$-20 \sim +85^{\circ}$ C, $10 \sim 95\%$ 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	213.5K hrs min. MIL-HDBK-217F (25°C)								
	DIMENSION	215*115*50mm (L*W*H)								
	PACKING	1.2Kg; 12pcs/15.4Kg/0.9CUFT								
NOTE	 Ripple & noise are measure Tolerance : includes set up Every output channel can p 	Illy mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. ed at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. tolerance, line regulation and load regulation. provide up to the maximum current, but total load can't exceed the rated output power. A,≦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



