

200W Quad Output with PFC Function

QP-200 series



Features :

- Universal AC input / Full range
- * Built-in active PFC function, PF>0.95
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Forced air cooling by built-in DC fan
- CH1,2 can be adjustable from -5~+10%
- With power good and fail signal output(Optional)
- Built-in remote sense function for CH1,2
- 100% full load burn-in test
- CH4 can set to positive after consult us before delivery(Optional)
- Fixed switching frequency at PFC:67KHz PWM:134KHz
- 3 years warranty



SPECIFICATION

MODEL		QP-200D				QP-200F				QP-200-3A			
	OUTPUT NUMBER	CH1	CH2	CH3	CH4	CH1	CH2	CH3	CH4	CH1	CH2	CH3	CH4
OUTPUT	DC VOLTAGE	5V	12V	24V	-12V	5V	15V	24V	-15V	5V	3.3V	12V	-5V
	RATED CURRENT	15A	4A	3A	0.7A	15A	3A	3A	0.7A	15A	15A	6A	0.7A
	CURRENT RANGE	3~20A	0~6A	0.4 ~ 5A	0~1A	3~20A	0~5A	0.4~5A	0~1A	3~20A	0~20A	0.5~8A	0~1A
	RATED POWER	203.4W			202.5W				200W				
	PEAK CURRENT Note.4	20A	7A	6A	1A	20A	6A	6A	1A	20A	20A	8A	1A
	RIPPLE & NOISE (max.) Note.2	100mVp-p	150mVp-p	150mVp-p	150mVp-p	100mVp-p	150mVp-p	150mVp-p	150mVp-p	100mVp-p	100mVp-p	150mVp-p	150mV
	VOLTAGE ADJ. RANGE	CH1: 4.75	~ 5.5V	CH2: 11.4	l ~ 13.2V	CH1: 4.75	~ 5.5V	CH2: 14.2	25 ~ 16.5V	CH1: 4.75	~ 5.5V	CH2: 3.14	~ 3.63\
	VOLTAGE TOLERANCE Note.3	±3.0%	±3.0%	+10,-6%	±6.0%	±3.0%	±3.0%	+10,-6%	±6.0%	±3.0%	±3.0%	+8,-10%	±6.0%
	LINE REGULATION	±1.0%	±1.0%	±2.0%	±1.0%	±1.0%	±1.0%	±2.0%	±1.0%	±1.0%	±1.0%	±2.0%	±1.0%
	LOAD REGULATION	±2.0%	±2.0%	±6.0%	±2.0%	±2.0%	±2.0%	±6.0%	±2.0%	±2.0%	$\pm 2.0\%$	$\pm 6.0\%$	±2.0%
	SETUP, RISE TIME	800ms, 50ms at full load											
	HOLD UP TIME (Typ.)	24ms at full load											
	VOLTAGE RANGE Note.6	90~264VAC 127~370VDC											
	FREQUENCY RANGE	47 ~ 63Hz											
	POWER FACTOR (Typ.)	PF>0.95/230VAC PF>0.98/115VAC at full load											
INPUT	EFFICIENCY (Typ.)	75% 75% 72%											
	AC CURRENT (Typ.)	3.5A/115VAC 2A/230VAC											
	INRUSH CURRENT (Typ.)	COLD START 30A											
	LEAKAGE CURRENT	<2mA / 240VAC											
	OVERLOAD	105 ~ 150% rated output power Protection type : Constant current limiting, recovers automatically after fault condition is removed											
	OVEREDAD												
PROTECTION	OVER VOLTAGE									CH2:3.8	~4.4V		
	OVERVOEINOE	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(OPTIONAL)												
	WORKING TEMP.	-10 ~ +60 $^\circ \rm C$ (Refer to "Derating Curve")											
	WORKING HUMIDITY	20 ~ 90% RH non-condensing											
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-20 ~ +85°C, 10 ~ 95% RH											
	TEMP. COEFFICIENT	±0.03%/°C (0~50°C)											
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes											
	SAFETY STANDARDS	UL60950-1, TUV EN60950-1 approved											
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC											
EMC	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH											
(Note 5)	EMC EMISSION	Compliance to EN55022 (CISPR22) Class B, EN61000-3-2,-3											
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, light industry level, criteria A											
OTHERS	MTBF	160.6K hrs min. MIL-HDBK-217F (25°C)											
	DIMENSION	215*115*50mm (L*W*H)											
	PACKING	1.2Kg; 12pcs/15.4Kg/0.92CUFT											
NOTE	 Ripple & noise are measure Tolerance : includes set up 33.3% Duty cycle maximun The power supply is consid EMC directives. For guidan (as available on http://www. 	Ily 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. n within every 30 seconds. Average output power should not exceed the rated power. lered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets ice on how to perform these EMC tests, please refer to "EMI testing of component power supplies." meanwell.com) nder low input voltages. Please check the derating curve for more details.											



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- 100% full load burn-in test
- CH4 can set to positive after consult us before delivery(Optional)
- Fixed switching frequency at PFC:67KHz PWM:134KHz
- 3 years warranty



SPECIFICATION

MODEL		QP-200-3B				QP-200-3C				QP-200-3D				
	OUTPUT NUMBER	CH1	CH2	CH3	CH4	CH1	CH2	CH3	CH4	CH1	CH2	CH3	CH4	
OUTPUT	DC VOLTAGE	5V	3.3V	12V	-12V	5V	3.3V	15V	-15V	5V	3.3V	24V	-12V	
	RATED CURRENT	15A	15A	6A	0.7A	15A	15A	5A	0.7A	10A	15A	4A	0.7A	
	CURRENT RANGE	3~20A	0~20A	0.5~8A	0~1A	3~20A	0~20A	0.5~6A	0~1A	3 ~ 15A	0~20A	0.4 ~ 5A	0~1A	
	RATED POWER	204.9W				210W				203.9W				
	PEAK CURRENT Note.4	20A	20A	8A	1A	20A	20A	7A	1A	20A	20A	6A	1A	
	RIPPLE & NOISE (max.) Note.2	100mVp-p	100mVp-p	150mVp-p	150mVp-p	100mVp-p	100mVp-p	150mVp-p	150mVp-p	100mVp-p	100mVp-p	150mVp-p	150mVp-	
	VOLTAGE ADJ. RANGE	CH1: 4.75	~ 5.5V	CH2: 3.14	↓~ 3.63V	CH1: 4.75	~ 5.5V	CH2: 3.14	- 3.63V	CH1: 4.75	~ 5.5V	CH2: 3.14	- 3.63V	
	VOLTAGE TOLERANCE Note.3	±3.0%	±3.0%	+8,-10%	±6.0%	±3.0%	±3.0%	+10,-6%	±6.0%	±3.0%	±3.0%	+10,-6%	±6.0%	
	LINE REGULATION	±1.0%	$\pm 1.0\%$	±2.0%	±1.0%	±1.0%	±1.0%	±2.0%	±1.0%	±1.0%	±1.0%	±2.0%	±1.0%	
	LOAD REGULATION	±2.0%	±2.0%	±6.0%	±2.0%	±2.0%	±2.0%	±6.0%	±2.0%	±2.0%	±2.0%	±6.0%	±2.0%	
	SETUP, RISE TIME	800ms, 50ms at full load												
	HOLD UP TIME (Typ.)	24ms at fu	ll load											
	VOLTAGE RANGE Note.6	90~264VAC 127~370VDC												
	FREQUENCY RANGE	47 ~ 63Hz												
	POWER FACTOR (Typ.)	PF>0.95/230VAC PF>0.98/115VAC at full load												
INPUT	EFFICIENCY (Typ.)	72% 72% 74%												
	AC CURRENT (Typ.)	3.5A/115VAC 2A/230VAC												
	INRUSH CURRENT (Typ.)	COLD START 30A												
	LEAKAGE CURRENT	<2mA/240VAC												
	OVERLOAD	105 ~ 150% rated output power Protection type : Constant current limiting, recovers automatically after fault condition is removed												
PROTECTION	OVER VOLTAGE	CH1:5.75 ~ 6.75V CH2:3.8 ~ 4.4V												
		Protection type : Shut down o/p voltage, re-power on to recover												
FUNCTION		Shut down o/p voltage, recovers automatically after temperature goes down												
FUNCTION	POWER GOOD / POWER FAIL(OPTIONAL)													
	WORKING TEMP. WORKING HUMIDITY	-10 ~ +60°C (Refer to "Derating Curve") 20 ~ 90% RH non-condensing												
ENVIRONMENT	STORAGE TEMP., HUMIDITY													
	TEMP. COEFFICIENT	-20 ~ +85°C , 10 ~ 95% RH												
	VIBRATION	±0.03%/°C (0~50°C) 10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes												
	SAFETY STANDARDS	UL60950-1, TUV EN60950-1 approved												
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC												
	ISOLATION RESISTANCE	I/P-0/P, I/P-FG, 0/P-FG:100M Ohms / 500VDC / 25°C / 70% RH												
EMC (Note 5)	EMC EMISSION	Compliance to EN55022 (CISPR22) Class B, EN61000-3-2,-3												
, ,	EMC IMMUNITY	Compliance to EN60022 (0101122) class B, E101000-52,-5 Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, light industry level, criteria A												
	MTBF	160.6K hrs min. MIL-HDBK-217F (25°C)												
OTHERS	DIMENSION	215*115*50mm (L*W*H)												
OTTLENO	PACKING	1.2Kg; 12pcs/15.4Kg/0.92CUFT												
NOTE	 All parameters NOT special Ripple & noise are measure Tolerance : includes set up 33.3% Duty cycle maximun The power supply is consid EMC directives. For guidan (as available on http://www. 	Ily 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. In within every 30 seconds. Average output power should not exceed the rated power. ered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets ce on how to perform these EMC tests, please refer to "EMI testing of component power supplies."												



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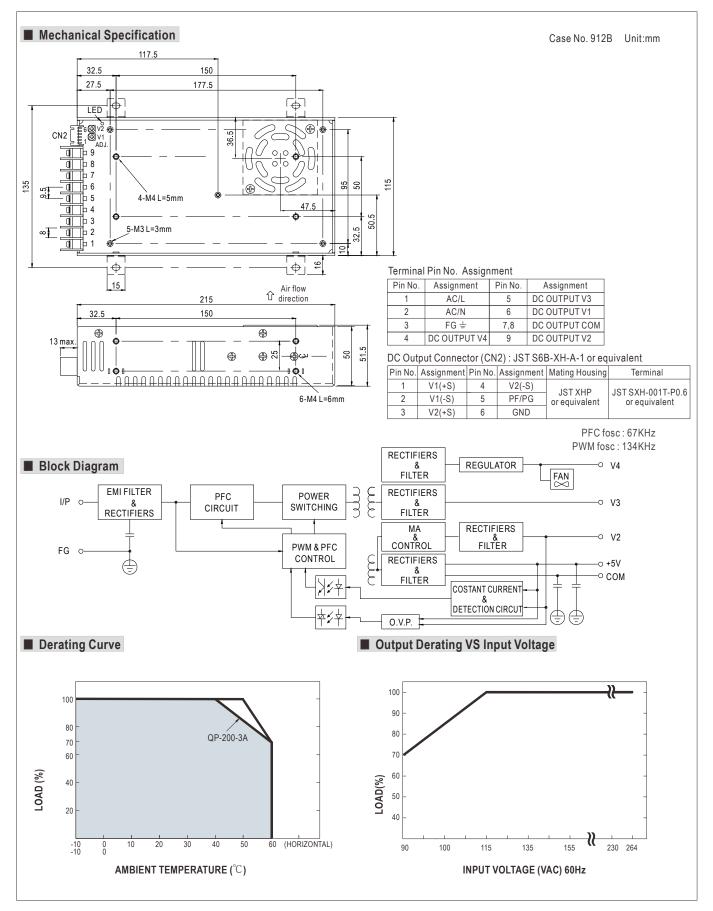


SPECIFICATION

MODEL		QP-200-3E									
-	OUTPUT NUMBER	CH1	CH2	CH3	CH4						
OUTPUT	DC VOLTAGE	5V	3.3V	24V	-15V						
	RATED CURRENT	10A	15A	4A	0.7A						
	CURRENT RANGE	3 ~ 15A	0~20A	0.4 ~ 5A	0~1A						
	RATED POWER	206W									
	PEAK CURRENT Note.4	20A 20A 6A 1A									
	RIPPLE & NOISE (max.) Note.2		100mVp-p	150mVp-p	150mVp-p						
	VOLTAGE ADJ. RANGE	CH1: 4.75 ~ 5.5V CH2: 3.14									
	VOLTAGE TOLERANCE Note.3	±3.0%	±3.0%	+10,-6%	±6.0%						
	LINE REGULATION	±1.0%	±1.0%	±2.0%	±1.0%						
	LOAD REGULATION	±2.0%	±2.0%	±6.0%	±2.0%						
	SETUP, RISE TIME	800ms, 50ms at full load									
	HOLD TIME (Typ.)	24ms at full load									
	VOLTAGE RANGE Note.6	90 ~ 264VAC 127 ~ 370VDC									
	FREQUENCY RANGE	47 ~ 63Hz									
	POWER FACTOR (Typ.)	PF>0.95/230VAC PF>0.98/115VAC at full load									
NPUT	EFFICIENCY (Typ.)	74%									
	AC CURRENT (Typ.)	3.5A/115VAC 2A/230VAC									
	INRUSH CURRENT (Typ.)	COLD START 30A									
	LEAKAGE CURRENT	<2mA/240VAC									
		105 ~ 150% rated output power									
	OVERLOAD	Protection type : Constant current limiting, recovers automatically after fault condition is removed									
ROTECTION											
	OVER VOLTAGE	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									
UNCTION	POWER GOOD / POWER FAIL(OPTIONAL)	10ms/1ms									
	WORKING TEMP.	-10 ~ +60 $^{\circ}\mathrm{C}$ (Refer to "Derating Curve")									
	WORKING HUMIDITY	20 ~ 90% RH non-condensing									
INVIRONMENT	STORAGE TEMP., HUMIDITY	-20 ~ +85°C , 10 ~ 95% RH									
	TEMP. COEFFICIENT	±0.03%/°C (0~50°C)									
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes									
	SAFETY STANDARDS	UL60950-1, TUV EN60950-1 approved									
SAFETY &	WITHSTAND VOLTAGE	I/P-0/P:3KVAC I/P-FG:2KVAC 0/P-FG:0.5KVAC									
EMC	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH									
Note 5)	EMC EMISSION	Compliance to EN55022 (CISPR22) Class B, EN61000-3-2,-3									
		Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, light industry level, criteria A									
	MTBF	160.6K hrs min. MIL-HDBK-217F (25°C)									
OTHERS	DIMENSION	215*115*50mm (L*W*H)									
	PACKING 1 All parameters NOT specia	1.2Kg; 12pcs/15.4Kg/0.92CUFT T specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.									
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Mouser Electronics

Authorized Distributor

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QP-200-3A QP-200-3B QP-200-3C QP-200-3E QP-200D QP-200F