



■ 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-200-3	Δ			
WODEL	OUTDUT NUMBER	CH1	CH2	CH3	CH4	CH1	CH2	CH3	CH4	CH1	1	СНЗ	CH4	
	OUTPUT NUMBER	-			-		-				CH2	1		
	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			I	202.5W	I		I	200W	1	T		
	PEAK CURRENT Note.4		7A	6A	1A	20A	6A	6A	1A	20A	20A	8A	1A	
OUTPUT	RIPPLE & NOISE (max.) Note.2													
	VOLTAGE ADJ. RANGE	CH1: 4.75 ~ 5.5V CH2: 11.4 ~ 13.2V			CH1: 4.75 ~ 5.5V CH2: 14.25 ~ 16.5V			CH1: 4.75 ~ 5.5V CH2: 3.14 ~ 3.63V						
	VOLTAGE TOLERANCE Note.3		±3.0%	+10,-6%	±6.0%	±3.0%	±3.0%	+10,-6%	±6.0%	±3.0%	±3.0%	+8,-10%		
	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%	±2.0%	±6.0%	±2.0%	
	SETUP, RISE TIME	800ms, 50	ms at full lo	oad										
	HOLD UP TIME (Typ.)	24ms at full load												
	VOLTAGE RANGE Note.5	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												
		105 ~ 150% rated output power												
	OVERLOAD	Protection type: Constant current limiting, recovers automatically after fault condition is removed												
PROTECTION		CH1:5.75 ~ 6.75V CH2:13.8 ~ 16.2V CH1: 5.75 ~ 6.75V CH2:17.25 ~ 20.25V CH1:5.75 ~ 6.75V CH2:3.8 ~ 4.4V												
	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												
FUNCTION	POWER GOOD / POWER FAIL (OPTIONAL)													
	WORKING TEMP.	-10 ~ +60°C (Refer to "Derating Curve")												
	WORKING HUMIDITY	20 ~ 90% RH non-condensing												
ENVIRONMENT	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 STANDARDS	UL62368-1, TUV EN62368-1, EAC TP TC 004 approved												
SAFETY & EMC (Note 6)	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 EN55032 (CISPR32) Class B, EN61000-3-2,-3, EAC TP TC 020												
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, light industry level, criteria A, EAC TP TC 020												
	MTBF	160.6K hrs min. MIL-HDBK-217F (25°C)												
OTHERS	DIMENSION				(20 0	1								
OTTLING	PACKING	215*115*50mm (L*W*H) 1.2Kg; 12pcs/15.4Kg/0.9CUFT												
	All parameters NOT special			<u> </u>	20\/AC icc	ut rated la	ad and OF	°C of ambig	ant tompor	nturo				

- 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. 33.3% Duty cycle maximum within every 30 seconds. Average output power should not exceed the rated power.
- 5. Derating may be needed under low input voltages. Please check the derating curve for more details.
- 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).
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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	
	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	
OUTPUT	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%	$\pm 3.0\%$	+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, 50	ms at full l	oad										
	HOLD UP TIME (Typ.)	24ms at full load												
	VOLTAGE RANGE Note.5	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		CH1:5.75 ~ 6.75V CH2:3.8 ~ 4.4V												
	OVER VOLTAGE	Protection type : Shut down o/p voltage, re-power on to recover												
	OVER TEMPERATURE	Shut dowr	o/p voltag	ge, recover	s automati	ically after	temperatu	re goes do	wn					
FUNCTION	POWER GOOD / POWER FAIL (OPTIONAL)	10ms/1ms												
	WORKING TEMP.	-10 ~ +60°C (Refer to "Derating Curve")												
	WORKING HUMIDITY	20 ~ 90% RH non-condensing												
ENVIRONMENT	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 STANDARDS	UL62368-1, TUV EN62368-1, EAC TP TC 004 approved												
SAFETY & EMC (Note 6)	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 EN55032 (CISPR32) Class B, EN61000-3-2,-3, EAC TP TC 020												
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, light industry level, criteria A, EAC TP TC 020												
	MTBF	160.6K hrs min. MIL-HDBK-217F (25°C)												
OTHERS	DIMENSION		50mm (L*W		,=5 0	,								
	PACKING			1/0.9CUFT										
NOTE	All parameters NOT special				30VAC inn	out rated lo	ad and 25	°C of ambig	ent temner	ature				

- 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. 33.3% Duty cycle maximum within every 30 seconds. Average output power should not exceed the rated power.
- 5. Derating may be needed under low input voltages. Please check the derating curve for more details.
- 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).
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SPECIFICATION

MODEL		QP-200-3E									
	OUTPUT NUMBER	CH1	CH2	CH3	CH4						
Ī	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									
OUTPUT	RIPPLE & NOISE (max.) Note.2	100mVp-p	100mVp-p	150mVp-p	150mVp-p						
	VOLTAGE ADJ. RANGE	CH1: 4.75 ~ 5.5V CH2:	3.14 ~ 3.63V								
	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 UP TIME (Typ.)	24ms at full load									
	VOLTAGE RANGE Note.5	90 ~ 264VAC 127 ~ 370VDC									
	FREQUENCY RANGE	47 ~ 63Hz									
ľ	POWER FACTOR (Typ.)	PF>0.95/230VAC PF>0.98/115VAC at full load									
	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									
PROTECTION		CH1:5.75 ~ 6.75V CH2:3.8 ~ 4.4V									
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UNCTION	POWER GOOD / POWER FAIL (OPTIONAL)	10ms/1ms									
	WORKING TEMP.	-10 ~ +60 °C (Refer to "Derating Curve")									
ľ	WORKING HUMIDITY	20 ~ 90% RH non-condensing									
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-20 ~ +85°C , 10 ~ 95% RH non-condensing									
ľ	TEMP. COEFFICIENT	±0.03%/°C (0~50°C)									
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes									
	SAFETY STANDARDS	UL62368-1, TUV EN62368-1, EAC TP TC 004 approved									
SAFETY &	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 EN55032 (CISPR32) Class B, EN61000-3-2,-3, EAC TP TC 020									
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, light industry level, criteria A, EAC TP TC 020									
	MTBF	160.6K hrs min. MIL-HDBK-217F (25°C)									
OTHERS	DIMENSION	215*115*50mm (L*W*H)									
	PACKING	1.2Kg; 12pcs/15.4Kg/0.9CUFT									

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