



## ■ 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
	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		7A	6A	1A	20A	6A	6A	1A	20A	20A	8A	1A
OUTPUT	RIPPLE & NOISE (max.) Note.2				150mVp-p		150mVp-p		150mVp-p			-	
	VOLTAGE ADJ. RANGE	CH1: 4.75		CH2: 11.4		CH1: 4.75			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%	±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%	±2.0%	±6.0%	±2.0%
	SETUP, RISE TIME							_ 0.070	-2.070	-2.070		_ = 0.0 /0	
	HOLD UP TIME (Typ.)	800ms, 50ms at full load 24ms at full load											
	VOLTAGE RANGE Note.6												
	FREQUENCY RANGE	47 ~ 63Hz											
	POWER FACTOR (Typ.)												
INPUT	EFFICIENCY (Typ.)		PF>0.95/230VAC PF>0.98/115VAC at full load										
INFUI	AC CURRENT (Typ.)	75%   75%   72%   2.6/230\/A.C.											
	INRUSH CURRENT (Typ.)	3.5A/115VAC 2A/230VAC											
	LEAKAGE CURRENT	COLD START 30A											
	LEARAGE CURRENT	<2mA / 240VAC											
	OVERLOAD	105 ~ 150% rated output power											
	Protection type: Constant current limiting, recovers automatically after rault condition is removed									4.4)/			
PROTECTION	OVER VOLTAGE	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											
		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											
	TEMP. COEFFICIENT	±0.03%/°C (0~50°C)											
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes											
	SAFETY STANDARDS												
SAFETY &	WITHSTAND VOLTAGE												
EMC	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH											
(Note 5)	EMC EMISSION	· ·			R22) Class	•							
	EMC IMMUNITY						ight industr	y level, cri	teria A				
	MTBF	160.6K hrs min. MIL-HDBK-217F (25°ℂ)											
OTHERS	DIMENSION	215*115*	50mm (L*V	/*H)									
	PACKING	1.2Kg; 12	pcs/15.4Ko	g/0.92CUF1	Γ								
NOTE	Ripple & noise are measurd     Tolerance: includes set up     3.3% Duty cycle maximun     The power supply is conside     a 360mm*360mm metal plate     perform these EMC tests, p.	ally mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.  red at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.  to tolerance, line regulation and load regulation.  m within every 30 seconds. Average output power should not exceed the rated power.  dered a component which will be installed into a final equipment. All the EMC tests are been executed by mounting the unit on late with 1mm of thickness. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how to please refer to "EMI testing of component power supplies." (as available on http://www.meanwell.com) under low input voltages. Please check the derating curve for more details.											
							,				File Name:	QP-200-SPEC	2015-07-





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- 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-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				
OUTPUT	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	4 ~ 3.63V	CH1: 4.75	~ 5.5V	CH2: 3.14	4 ~ 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%	±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	ad													
	HOLD UP TIME (Typ.)	24ms at full load															
	VOLTAGE RANGE Note.6	90 ~ 264VAC 127 ~ 370VDC															
	FREQUENCY RANGE	47 ~ 63Hz															
	POWER FACTOR (Typ.)	PF>0.95/2	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															
		105 ~ 150% rated output power															
	OVERLOAD	Protection type: Constant current limiting, recovers automatically after fault condition is removed															
PROTECTION	OVED VOLTA OF	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)	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															
	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     3.3% Duty cycle maximun     The power supply is conside     a 360mm*360mm metal ple     perform these EMC tests, 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.  In within every 30 seconds. Average output power should not exceed the rated power.  lered a component which will be installed into a final equipment. All the EMC tests are been executed by mounting the unit on  atte with 1mm of thickness. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how to  blease refer to "EMI testing of component power supplies." (as available on http://www.meanwell.com)  and of the property of the															





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- 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-200-3E									
	OUTPUT NUMBER	CH1 CH2 CH3 CH4									
ОИТРИТ	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	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									
INPUT	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	OVER VOLTAGE	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)	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									
	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:2KVA									
EMC	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M									
(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	<ol> <li>All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.</li> <li>Ripple &amp; noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf &amp; 47uf parallel capacitor.</li> <li>Tolerance: includes set up tolerance, line regulation and load regulation.</li> <li>33.3% Duty cycle maximum within every 30 seconds. Average output power should not exceed the rated power.</li> <li>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)</li> <li>Derating may be needed under low input voltages. Please check the derating curve for more details.</li> </ol>										
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