



## ■ 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**



LINE REGULATION	MODEL		QP-200D				QP-200F				QP-200-3A				
RATED CURRENT		OUTPUT NUMBER	CH1	CH2	CH3	CH4	CH1	CH2	CH3	CH4	CH1	CH2	CH3	CH4	
CURRENT RANGE		DC VOLTAGE	5V	12V	24V	-12V	5V	15V	24V	-15V	5V	3.3V	12V	-5V	
NUMBER   ACTOR   PARK CURRENT   Noted   20.4   7A   6A   1A   20.4   6A   6A   1A   20.4		RATED CURRENT	15A	4A	3A	0.7A	15A	3A	3A	0.7A	15A	15A	6A	0.7A	
PACK CURRENT   Note   20A   7A   6A   1A   20A   6A   6A   1A   20A   20A   20A   8A   1A   1A   20A   1A   20A   1A   20A   1A   20A		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	
NUMBER   NOISE (max.)   Note   100m/cp   150m/cp   150		RATED POWER	203.4W				202.5W				200W		I.		
VOLTAGE ADJ. RANGE		PEAK CURRENT Note.4	20A	7A	6A	1A	20A	6A	6A	1A	20A	20A	8A	1A	
VOLTAGE ADJ. RANGE	OUTPUT	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	150mVp-	
LINE REGULATION												~ 5.5V	CH2: 3.14	~ 3.63V	
LOAD REGULATION		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%	
SETUP, RISE TIME		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%	
NOLD UP TIME (Typ.)   24ms at full load   177 - 370 VDC   178 CRANGE   178 - 3814   180 CREATING   178 CREATING   1		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%	
NOLTAGE RANGE		SETUP, RISE TIME	800ms, 50ms at full load												
NOLTAGE RANGE		HOLD UP TIME (Typ.)													
NPURE FACTOR (Typ.)   PF-0.95/230VAC   PF-0.98/115VAC at full load   PF-0.25/25V   P			90 ~ 264V	AC 12	27 ~ 370VD	C									
RFICIENCY (Typ.)   75%   75%   75%   75%   72%		FREQUENCY RANGE													
RFICIENCY (Typ.)   75%   75%   75%   75%   72%		POWER FACTOR (Typ.)													
AC CURRENT (Typ.)   3.5A/115VAC   2A/230VAC     INRUSH CURRENT (Typ.)   COLD START 30A	INPUT		75%				75%				72%				
NRUSH CURRENT (Typ.)   COLD START 30A		AC CURRENT (Typ.)													
NOVERLOAD   105 - 150% rated output power   Protection type : Constant current limiting, recovers automatically after fault condition is removed   Protection type : Constant current limiting, recovers automatically after fault condition is removed   Protection type : Constant current limiting, recovers automatically after fault condition is removed   Protection type : Shut down o/p voltage, re-power on to recover   Protection type : Shut down o/p voltage, re-power on to recover   Protection type : Shut down o/p voltage, re-power on to recover   Protection type : Shut down o/p voltage, re-power on to recover   Protection type : Shut down o/p voltage, re-power on to recover   Protection type : Shut down o/p voltage, recovers automatically after temperature goes down   Protection type : Shut down o/p voltage, recovers automatically after temperature goes down   Protection type : Shut down o/p voltage, recovers automatically after temperature goes down   Protection type : Shut down o/p voltage, recovers automatically after temperature goes down   Protection type : Shut down o/p voltage, recovers automatically after temperature goes down   Protection type : Shut down o/p voltage, recovers automatically after temperature goes down   Protection type : Shut down o/p voltage, recovers automatically after temperature goes down   Protection type : Shut down o/p voltage   Protection type : Shut down o/p															
PROTECTION   Protection type : Constant current limiting, recovers automatically after fault condition is removed		LEAKAGE CURRENT													
PROTECTION   OVER VOLTAGE															
Protection type : Shut down o/p voltage, re-power on to recover		OVERLOAD													
Protection type : Shut down o/p voltage, re-power on to recover	PROTECTION	OVER VOLTAGE													
FUNCTION   POWER GODD / POWER FAIL (POTIONAL)   10ms/1 ms   10ms															
FUNCTION   POWER GOOD / POWER FAIL (OPTIONAL)   10ms/1ms		OVER TEMPERATURE													
WORKING TEMP.	FUNCTION	POWER GOOD / POWER FAIL(OPTIONAL)													
ENVIRONMENT  ENVIR			-10 ~ +60°	°C (Refer to	"Derating	Curve")									
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  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 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  MTBF 160.6K hrs min. MIL-HDBK-217F (25°C)  OTHERS  DIMENSION 215*115*50mm (L*W*H)  PACKING 1.2Kg; 12pcs/15.4Kg/0.92CUFT  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. 33.3% Duty cycle maximum within every 30 seconds. Average output power should not exceed the rated power. 5. The power supply is considered a component which will be installed into a final equipment. 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) 6. Derating may be needed under low input voltages. Please check the derating curve for more details.		WORKING HUMIDITY													
VIBRATION 10~500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes  SAFETY \$TANDARDS UL60950-1, TUV EN60950-1 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 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  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  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. 33.3% Duty cycle maximum within every 30 seconds. Average output power should not exceed the rated power. 5. The power supply is considered a component which will be installed into a final equipment. 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) 6. Derating may be needed under low input voltages. Please check the derating curve for more details.	ENVIRONMENT	STORAGE TEMP., HUMIDITY	· ·												
SAFETY 8  SAFETY STANDARDS  UL60950-1, TUV EN60950-1 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 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  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  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. 33.3% Duty cycle maximum within every 30 seconds. Average output power should not exceed the rated power. 5. The power supply is considered a component which will be installed into a final equipment. 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) 6. Derating may be needed under low input voltages. Please check the derating curve for more details.		TEMP. COEFFICIENT													
SAFETY & EMC (Note 5)  EMC (Note 5)  EMC EMISSION		VIBRATION	,												
EMC (Note 5)    ISOLATION RESISTANCE   I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH		SAFETY STANDARDS	UL60950-1, TUV EN60950-1 approved												
ISOLATION RESISTANCE   I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH	SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3	(VAC I/P	-FG:2KVA	C O/P-F0	G:0.5KVAC								
(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  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  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. 33.3% Duty cycle maximum within every 30 seconds. Average output power should not exceed the rated power. 5. The power supply is considered a component which will be installed into a final equipment. 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) 6. Derating may be needed under low input voltages. Please check the derating curve for more details.	-	ISOLATION RESISTANCE	I/P-O/P, I/I	P-FG, O/P-	FG:100M (	Ohms / 500	VDC / 25°C	/ 70% RH							
MTBF   160.6K hrs min. MIL-HDBK-217F (25°C)	-	EMC EMISSION													
MTBF   160.6K hrs min. MIL-HDBK-217F (25°C)		EMC IMMUNITY	Compliano	ce to EN61	000-4-2,3,4	1,5,6,8,11,	EN55024, li	ght industr	y level, crit	eria A					
PACKING  1.2Kg; 12pcs/15.4Kg/0.92CUFT  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. 33.3% Duty cycle maximum within every 30 seconds. Average output power should not exceed the rated power. 5. The power supply is considered a component which will be installed into a final equipment. 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) 6. Derating may be needed under low input voltages. Please check the derating curve for more details.		MTBF													
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<ol> <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. 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>		PACKING	1.2Kg; 12pcs/15.4Kg/0.92CUFT												
	NOTE	<ol> <li>Ripple &amp; noise are measure</li> <li>Tolerance: includes set up</li> <li>33.3% Duty cycle maximum</li> <li>The power supply is conside</li> <li>EMC directives. For guidan (as available on http://www.</li> </ol>	red at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. o 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. The final equipment must be re-confirmed that it still meets noe on how to perform these EMC tests, please refer to "EMI testing of component power supplies." v.meanwell.com)												





## ■ 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-200-3B				QP-200-3C				QP-200-3D			
	OUTPUT NUMBER	CH1	CH2	СНЗ	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	0.7A	3 ~ 20A	0 ~ 20A	0.5 ~ 6A	0.7A	3 ~ 15A	0 ~ 20A	0.4 ~ 5A	0.7A
	RATED POWER	204.9W	0 2014	0.0 OA	V IA	210W	U ZUA	0.0 OA	V IA	203.9W	0 20/1	U.7 UA	U IA
	PEAK CURRENT Note.4				110	20A 20A 7A 1A				20A 20A 6A 1A			
OUTPUT	RIPPLE & NOISE (max.) Note.2		-	-						-	-	-	
OUIFUI	VOLTAGE ADJ. RANGE	CH1: 4.75		CH2: 3.14		100mVp-p  100mVp-p  150mVp-p  150mVp-p   CH1: 4.75 ~ 5.5V				100mVp-p  100mVp-p  150mVp-p  150mVp-p   CH1: 4.75 ~ 5.5V			
	VOLTAGE ADJ. RANGE VOLTAGE TOLERANCE Note.3	±3.0%	±3.0%	+8,-10%	±6.0%	±3.0%	±3.0%	+10,-6%	±6.0%	±3.0%	±3.0%		±6.0%
												+10,-6%	
	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, 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>0.95/2	230VAC	PF>0.98/	115VAC at 1	full load							
INPUT	EFFICIENCY (Typ.)	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		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/1m	S										
	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 EN	60950-1 ap	proved								
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3	KVAC I/F	P-FG:2KVA	C O/P-F0	G:0.5KVAC							
EMC	ISOLATION RESISTANCE	I/P-O/P, I/	P-FG, O/P	-FG:100M (	Ohms / 500	VDC / 25°C	/ 70% RH						
(Note 5)	EMC EMISSION	Complian	ce to EN55	022 (CISPF	R22) Class	B, EN6100	0-3-2,-3						
	EMC IMMUNITY	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	1.2Kg; 12pcs/15.4Kg/0.92CUFT											
NOTE	Ripple & noise are measure     Tolerance: includes set up     3.3% Duty cycle maximun     The power supply is conside     EMC directives. For guidan     (as available on http://www.	nder low input voltages. Please check the derating curve for more details.											
											File Name:	QP-200-SPEC	2014-12-1





## ■ 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-200-3E										
	OUTPUT NUMBER	CH1 CH2 CH3 CH4										
	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	1		l'							
	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		** F F	The second secon							
	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%										
INFOI	AC CURRENT (Typ.)	3.5A/115VAC 2A/230VAC										
	INRUSH CURRENT (Typ.)	COLD START 30A										
	LEAKAGE CURRENT	<2mA/240VAC										
	LEARAGE GORRERT	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										
TROTLOTION	OVER VOLTAGE	Protection type : Shut down o/p		cover								
	OVER TEMPERATURE	Shut down o/p voltage, recovers automatically after temperature goes down										
FUNCTION	POWER GOOD / POWER FAIL(OPTIONAL)											
	WORKING TEMP.	-10 ~ +60 $^{\circ}$ 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	C 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										
	MTBF	160.6K hrs min. MIL-HDBK-217F ( $25^{\circ}$ C)										
OTHERS	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. 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>											
		<del>-</del>			File Name:QP-200-SPEC 2014-12-1							



