



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	
ОИТРИТ	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	150mVp-	
	VOLTAGE ADJ. RANGE	CH1: 4.75	~ 5.5V	CH2: 11.4	~ 13.2V	CH1: 4.75	~ 5.5V	CH2: 14.2	25 ~ 16.5V	CH1: 4.75	CH1: 4.75 ~ 5.5V CH2: 3.14 ~ 3.63V			
	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%	±2.0%	±6.0%	±2.0%	
	SETUP, RISE TIME	800ms, 50ms at full load												
	HOLD UP TIME (Typ.)	24ms at fu	ıll 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 / 24												
	OVERLOAD	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 CH2:13.8 ~ 16.2V CH1: 5.75 ~ 6.75V CH2:17.25 ~ 20.25V CH1:5.75 ~ 6.75V CH2:3.8 ~ 4.4V												
T NOTE OTTON	OVERVOLIAGE	Protection type: Shut down o/p voltage, re-power on to recover												
	OVER TEMPERATURE	95°C ±5°C (TSW1) detect on heatsink of Q1,Q2 power transistor												
		Protection type: Shut down o/p voltage, recovers automatically after temperature goes down												
FUNCTION	POWER GOOD / POWER FAIL (OPTIONAL)													
	WORKING TEMP.	-10 ~ +60°C (Refer to output load 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 & EMC	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC												
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms/500VDC												
(Note 5)	EMI CONDUCTION & RADIATION	The production of the producti												
	HARMONIC CURRENT	Compliance to EN61000-3-2,-3												
	EMS IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204, 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 consid EMC directives.	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. The final equipment must be re-confirmed that it still meets under low input voltages. Please check the derating curve for more details.												





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- 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	
ОИТРИТ	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	8A	1A	20A	20A	7A	1A	20A	20A	6A	1A	
	RIPPLE & NOISE (max.) Note.2			L.								150mVp-p		
	VOLTAGE ADJ. RANGE	CH1: 4.75		CH2: 3.14		CH1: 4.75		CH2: 3.14	1	CH1: 4.75		CH2: 3.14		
	VOLTAGE TOLERANCE Note.3	±3.0%	±3.0%		±6.0%	±3.0%	±3.0%		±6.0%	±3.0%	±3.0%	+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				22.070	22.070				±2.070	<u></u>	20.070		
	HOLD UP TIME (Typ.)	800ms, 50ms at full load 24ms at full load												
	VOLTAGE RANGE Note.6													
	FREQUENCY RANGE	47 ~ 63Hz												
	POWER FACTOR (Typ.)	47 ~ 03HZ PF>0.95/230VAC PF>0.98/115VAC at full load												
INDUT	EFFICIENCY (Typ.)													
INPUT	AC CURRENT (Typ.)													
	INRUSH CURRENT (Typ.)													
	LEAKAGE CURRENT	COLD START 30A												
	LEARAGE 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												
	OVER TEMPERATURE	95°C ±5°C (TSW1) detect on heatsink of Q1,Q2 power transistor												
		Protection type: Shut down o/p voltage, recovers automatically after temperature goes down												
FUNCTION	POWER GOOD / POWER FAIL(OPTIONAL)				11 6	`								
	WORKING TEMP.	-10 ~ +60°C (Refer to output load derating curve)												
	WORKING HUMIDITY	20 ~ 90% RH non-condensing												
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-20 ~ +85℃, 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:1.5KVAC O/P-FG:0.5KVAC												
EMC	ISOLATION RESISTANCE			-FG:100M										
(Note 4)	EMI CONDUCTION & RADIATION			022 (CISPI	,	В								
	HARMONIC CURRENT	Compliance to EN61000-3-2,-3												
	EMS IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204, EN55024, light industry level, criteria A												
	MTBF	160.6K hrs min. MIL-HDBK-217F (25℃)												
OTHERS	DIMENSION	215*115*	50mm (L*V	V*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 consid EMC directives.	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. The final equipment must be re-confirmed that it still meets under low input voltages. Please check the derating curve for more details.												





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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	0 20/1	0.4 0/1	jo int							
	PEAK CURRENT Note.4	1 1 1	1A									
	RIPPLE & NOISE (max.) Note.2		20A 100mVp-p	6A 150mVp-p	150mVp-p							
	VOLTAGE ADJ. RANGE	• • •	4 ~ 3.63V	130ПГГР-Р	1301117 þ-þ							
	VOLTAGE ADJ. RANGE VOLTAGE TOLERANCE Note.3		±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											
	FREQUENCY RANGE	47 ~ 63Hz										
	POWER FACTOR (Typ.)	PF>0.95/230VAC										
INPUT	EFFICIENCY (Typ.)	74%										
	AC CURRENT (Typ.)	3.5A/115VAC 2A/230VAC										
	INRUSH CURRENT (Typ.)	COLD START 30A										
	LEAKAGE CURRENT	<2mA / 240VAC										
	OVERI GAR	105 ~ 150% rated output power										
	OVERLOAD	Protection type: Constant current limiting, recovers automatically after fault condition is removed										
DDOTECTION	OVED VOLTACE	CH1:5.75 ~ 6.75V CH2:3.8 ~ 4.4V										
PROTECTION	OVER VOLTAGE	Protection type : Shut down o/p voltage, re-power on to recover										
	OVED TEMPEDATURE	95°C ±5°C (TSW1) detect on heatsink of Q1,Q2 power transistor										
	OVER TEMPERATURE	Protection type : 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 output load 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										
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC										
SAFETY &	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms/500VDC										
EMC	EMI CONDUCTION & RADIATION	Compliance to EN55022 (CISPR22) Class B										
(Note 5)	HARMONIC CURRENT	Compliance to EN61000-3-2,-3										
	EMS IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204, EN55024, light industry level, criteria A										
	MTBF	160.6K hrs min. MIL-HDBK-217F (25℃)										
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