



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
- Fixed switching frequency at PFC:67KHz PWM:134KHz(Optional)
- 3 years warranty



SP	EC	IFI	CAT	ΠΟ	N

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	20A	7A	6A	1A	20A	6A	6A	1A	20A	20A	8A	1A
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-
	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	~ 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	III load										
	VOLTAGE RANGE Note.6	90 ~ 264V	AC 12	27 ~ 370VD	C								
	FREQUENCY RANGE	47 ~ 63Hz											
	POWER FACTOR (Typ.)	PF>0.95/2	230VAC	PF>0.98/	115VAC at 1	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											
		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	OVER VOLTAGE	Protection type : Shut down o/p voltage, re-power on to recover											
		$95^{\circ}\text{C} \pm 5^{\circ}\text{C}$ (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/1m	3										
	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%/°	○ (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/500V	DC							
EMC (Note 5)	EMI CONDUCTION & RADIATION	Complian	ce to EN55	022 (CISPI	R22) Class	В							
(Note 3)	HARMONIC CURRENT	Complian	ce to EN61	000-3-2,-3									
	EMS IMMUNITY	Complian	ce to EN61	000-4-2,3,4	4,5,6,8,11; I	ENV50204,	EN55024,	light indust	try level, cr	iteria A			
	MTBF	160.6K hr			217F (25°C)								
OTHERS	DIMENSION	230*115*	50mm (L*W										
	PACKING	1.2Kg; 12pcs/15.4Kg/0.92CUFT											
l	I AUNINO	ally mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.											

- 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.
- 6. Derating may be needed under low input voltages. Please check the derating curve for more details.



SPECIFICATION

MODEL



QP-200-3B

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
- Fixed switching frequency at PFC:67KHz PWM:134KHz(Optional)
- 3 years warranty

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	4 ~ 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%	±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	Oms at full l	oad									
	HOLD UP TIME (Typ.)	24ms at fu	ull load										
	VOLTAGE RANGE Note.6	90 ~ 264V	/AC 12	27 ~ 370VE	C								
	FREQUENCY RANGE	47 ~ 63Hz	2										
	POWER FACTOR (Typ.)	PF>0.95/2	230VAC	PF>0.98/	115VAC at	ıt full load							
INPUT	EFFICIENCY (Typ.)	72%				72% 74%							
	AC CURRENT (Typ.)	3.5A/115\	3.5A/115VAC 2A/230VAC										
	INRUSH CURRENT (Typ.)	COLD ST	COLD START 30A										
	LEAKAGE CURRENT	<2mA / 240VAC											
	01/501 040	105 ~ 150% rated output power											
	OVERLOAD	Protection type : Constant current limiting, recovers automatically after fault condition is removed											
DDOTECTION	OVER VOLTAGE	CH1:5.75 ~ 6.75V CH2:3.8 ~ 4.4V											
PROTECTION	OVER VOLIAGE	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.				ad derating	curve)							
	WORKING HUMIDITY	20 ~ 90%	20 ~ 90% RH non-condensing										
ENVIRONMENT	STORAGE TEMP., HUMIDITY		°C, 10 ~ 95										
	TEMP. COEFFICIENT		C (0~50°C)										
	VIBRATION	10 ~ 500H	Hz, 2G 10m	in./1cycle,	60min. eac	h along X, `	Y, Z axes						
	SAFETY STANDARDS		-1, TUV EN		•								
SAFETY &	WITHSTAND VOLTAGE				/AC O/P-		.C						
EMC	ISOLATION RESISTANCE				Ohms/500V								
(Note 4)	EMI CONDUCTION & RADIATION	Complian	ce to EN55	022 (CISP	R22) Class	В							
,,	HARMONIC CURRENT	Complian	ce to EN61	000-3-2,-3									
	EMS IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204, EN55024, light industry level, criteria A											
	MTBF	160.6K hi	rs min. N	/IL-HDBK-	217F (25°C)							

NOTE

OTHERS

DIMENSION

PACKING

- 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.

230*115*50mm (L*W*H)

1.2Kg; 12pcs/15.4Kg/0.92CUFT

- 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.
- 6. Derating may be needed under low input voltages. Please check the derating curve for more details.





QP-200-3E

CH1

Features:

- · Universal AC input / Full range
- Built-in active PFC function, PF>0.95
- Protections:Short circuit/Over load/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

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

CH2



CH4

OUTPUT NUMBER DC VOLTAGE

SPECIFICATION

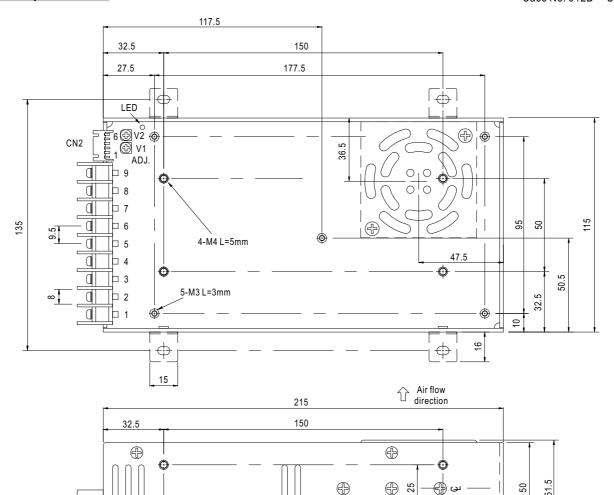
	OUT OF HOMBER	0111	0112	0110	0114						
	DC VOLTAGE	5V	3.3V	24V	-15V						
	RATED CURRENT	10A	15A	4A	0.7A						
	CURRENT RANGE	3 ~ 15A	0 ~ 20A	0.4 ~ 5A	0 ~ 1A						
	RATED POWER	206W									
	PEAK CURRENT Note.4	20A	20A	6A	1A						
OUTPUT	RIPPLE & NOISE (max.) Note.2	100mVp-p	100mVp-p	150mVp-p	150mVp-p						
	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			1						
	HOLD TIME (Typ.)	24ms at full load									
	VOLTAGE RANGE Note.6	90 ~ 264VAC 127 ~ 370VD	С								
	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									
	OVER LOAD	Protection type: Constant current limiting, recovers automatically after fault condition is removed									
PROTECTION	01/50 1/01 74 05	CH1:5.75 ~ 6.75V CH2:3.8	3 ~ 4.4V								
PROTECTION	OVER VOLTAGE	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									
	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										
	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 (Note 5)	EMI CONDUCTION & RADIATION	Compliance to EN55022 (CISPF	R22) Class B								
(Note 5)	HARMONIC CURRENT	Compliance to EN61000-3-2,-3									
	EMS IMMUNITY	Compliance to EN61000-4-2,3,4		, light industry level, criteria A							
	MTBF	160.6K hrs min. MIL-HDBK-2	217F (25°C)								
OTHERS	DIMENSION	230*115*50mm (L*W*H)									
	PACKING	1.2Kg; 12pcs/15.4Kg/0.92CUFT									
NOTE		ially 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.
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- 6. Derating may be needed under low input voltages. Please check the derating curve for more details.



■ Mechanical Specification

Case No. 912B Unit:mm



6-M4 L=6mm

Terminal Pin No. assignment:

Pin No.	Assignment	Pin No.	Assignment	Pin No.	Assignment
1	AC/L	4	DC OUTPUT V4	7,8	DC OUTPUT COM
2	AC/N	5	DC OUTPUT V3	9	DC OUTPUT V2
3	FG ±	6	DC OUTPUT V1		

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DC Output Connector (CN2): JST S6B-XH-A-1 or equivalent

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Pin No.	Assignment	Pin No.	Assignment	Mating Housing	Terminal
1	V1(+S)	4	V2(-S)	JST XHP	JST SXH-001T-P0.6
2	V1(-S)	5	PF/PG	or equivalent	or equivalent
3	V2(+S)	6	G		

■ Derating Curve

100 80 70 60 40 20 -10 -10 0 10 20 30 40 50 60 (HORIZONTAL)

■ Output Derating VS Input Voltage

