



Features:

- Universal AC input / Full range
- Built-in active PFC function, PF>0.95
- Protections:Short circuit/Over load/Over voltage
- Free air cooling convection
- CH4:±Polarity is selectable
- Fixed switching frequency at 100KHz(Optional)
- 3 years warranty



SPECIFICATION

MODEL		QP-100-3A				QP-100-3B				QP-100-3	BC			
	OUTPUT NUMBER	CH1	CH2	CH3	CH4	CH1	CH2	CH3	CH4	CH1	CH2	CH3	CH4	
	DC VOLTAGE	5V	3.3V	12V	-5V	5V	3.3V	12V	-12V	5V	3.3V	15V	-15V	
	RATED CURRENT	8A	8A	2.5A	0.6A	8A	8A	2.2A	0.6A	8A	8A	1.7A	0.6A	
	CURRENT RANGE	2 ~ 10A	0 ~ 10A	0.3 ~ 3A	0 ~ 1A	2 ~ 10A	0 ~ 10A	0.3 ~ 3A	0 ~ 1A	2 ~ 10A	0 ~ 10A	0.3 ~ 2A	0 ~ 1A	
	RATED POWER (max.)	99.4W	'	"	'	100W			100.9W					
	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 150mV					
OUTPUT	VOLTAGE ADJ. RANGE	CH1: 4.75	~ 5.5V	CH2: 3.14	1 ~ 3.63V	CH1: 4.75	~ 5.5V	CH2: 3.14	1 ~ 3.63V	CH1: 4.75 ~ 5.5V CH2: 3.14 ~ 3.63\				
	VOLTAGE TOLERANCE Note.3	±3.0%	±3.0%	±6.0%	±5.0%	±3.0%	±3.0%	±6.0%	±5.0%	±3.0%	±3.0%	+8,-6%	±5.0%	
	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/230VAC 800ms, 50ms/115VAC at full load												
	HOLD TIME (Typ.)	24ms/230	VAC	24ms/115V	AC at full lo	oad								
	VOLTAGE RANGE Note.5	90 ~ 264V	'AC 1:	27 ~ 370VD	C									
	FREQUENCY RANGE	47 ~ 63Hz												
	POWER FACTOR (Typ.)	PF>0.95/230VAC PF>0.98/115VAC at full load												
INPUT	EFFICIENCY (Typ.)	74% 75% 75%												
	AC CURRENT (Typ.)	1.5A/115VAC 0.75A/230VAC												
	INRUSH CURRENT (Typ.)	COLD START ≦40A/230V												
	LEAKAGE CURRENT	<3.5mA/240VAC												
		105 ~ 150% rated output power												
	OVER LOAD	Protection type: Hiccup mode, recovers automatically after fault condition is removed												
		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°C ±5°C (TSW1)												
	OVER TEMPERATURE(OPTION)	Protection type: Shut down o/p voltage, recovers automatically after temperature goes down												
	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		○ (0~50°C)											
	VIBRATION				60min. eac	h along X.	Y. Z axes							
	SAFETY STANDARDS	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes UL60950-1, TUV EN60950-1 Approved												
	WITHSTAND VOLTAGE				<u> </u>	FG:0.5KVA	(C							
SAFETY &	ISOLATION RESISTANCE	I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC I/P-O/P, I/P-FG, O/P-FG:100M Ohms/500VDC												
EMC	EMI CONDUCTION & RADIATION													
(Note 4)	HARMONIC CURRENT													
	EMS IMMUNITY	Compliance to EN61000-3-2,-3 Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204, EN55024, Light industry level, criteria A												
	MTBF	139.9K hr		/IL-HDBK-2			,,	g	,, .					
OTHERS	DIMENSION		0mm (L*W*		-171 (200									
O I II LINO	PACKING			,	T									
NOTE	All parameters NOT specia Ripple & noise are measure Tolerance : includes set up	0.87Kg; 20pcs/18.4Kg/1.28CUFT s NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. e are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. icludes set up tolerance, line regulation and load regulation. ipply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still menually.									meets			

- 4. 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.
- 5. Derating may be needed under low input voltages. Please check the derating curve for more details.





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- Fixed switching frequency at 100KHz(Optional)
- 3 years warranty



SPECIFICATION

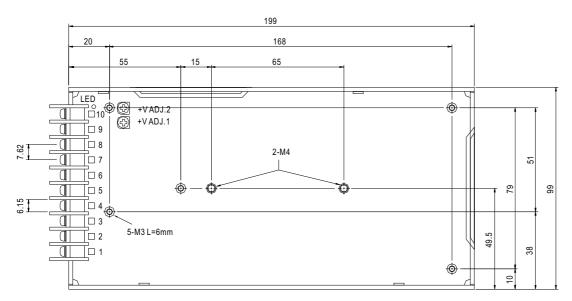
MODEL		QP-100-3D				QP-100D				QP-100F				
	OUTPUT NUMBER	CH1	CH2	CH3	CH4	CH1	CH2	CH3	CH4	CH1	CH2	CH3	CH4	
	DC VOLTAGE	5V	3.3V	24V	-12V	5V	12V	24V	-12V	5V	15V	24V	-15V	
	RATED CURRENT	8A	8A	1.3A	0.6A	8A	2.4A	1A	0.6A	8A	2A	1A	0.6A	
	CURRENT RANGE	2 ~ 10A	0 ~ 10A	0.3 ~ 2A	0 ~ 1A	2 ~ 10A	0 ~ 3A	0.3 ~ 2A	0 ~ 1A	2 ~ 10A	0 ~ 3A	0.3 ~ 2A	0 ~ 1A	
	RATED POWER (max.)	104.8W	'	'	•	100W	'	·	'	103W				
	RIPPLE & NOISE (max.) Note.2	100mVp-p	100mVp-p	150mVp-p	150mVp-p	120mVp-p	150mVp-p	200mVp-p	150mVp-p	120mVp-p	180mVp-	200mVp-p	150mVp-p	
OUTPUT	VOLTAGE ADJ. RANGE	CH1: 4.75	~ 5.5V	CH2: 3.14	1 ~ 3.63V	CH1: 4.75 ~ 5.5V CH2: 11.4 ~ 13.2V			CH1: 4.75	~ 5.5V	CH2: 14.0	3 ~ 16.5V		
	VOLTAGE TOLERANCE Note.3	±3.0%	±3.0%	±6.0%	±5.0%	±3.0%	±3.0%	±6.0%	±5.0%	±3.0%	±3.0%	±6.0%	±5.0%	
	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/230VA	C 800	0ms, 50ms/	115VAC at	full load							
	HOLD TIME (Typ.)	24ms/230	VAC	24ms/115V	AC at full lo	oad								
	VOLTAGE RANGE Note.5	90 ~ 264V	'AC 12	27 ~ 370VD	C									
	FREQUENCY RANGE	47 ~ 63Hz	<u>'</u>											
	POWER FACTOR (Typ.)	PF>0.95/2	230VAC	PF>0.98/	115VAC at	full load								
INPUT	EFFICIENCY (Typ.)	75%				78%				78%				
	AC CURRENT (Typ.)	1.5A/115\	1.5A/115VAC 0.75A/230VAC											
	INRUSH CURRENT (Typ.)	COLD ST	COLD START ≦40A/230V											
	LEAKAGE CURRENT	<3.5mA / 240VAC												
	OVER LOAD	105 ~ 150% rated output power												
		Protection type: Hiccup mode, recovers automatically after fault condition is removed												
	OVER VOLTAGE	CH1:5.75 ~ 6.75V CH2:3.8 ~ 4.4V CH1:5.75 ~ 6.75V CH2:13.8 ~ 16.2V CH1:5.75 ~ 6.75V CH2:17.25 ~ 20.25V												
PROTECTION		Protection type : Shut down o/p voltage, re-power on to recover												
	OVER TEMPERATURE (ORTION)	95℃±5℃ (TSW1)												
	OVER TEMPERATURE(OPTION)	Protection type: Shut down o/p voltage, recovers automatically after temperature goes down												
	WORKING TEMP10 ~ +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	, .	-,		Ohms/500V									
EMC	EMI CONDUCTION & RADIATION	Compliance to EN55022 (CISPR22) Class B												
(Note 4)	HARMONIC CURRENT	Compliance to EN61000-3-2,-3												
	EMS IMMUNITY	Complian	ce to EN61	000-4-2,3,4	4,5,6,8,11;	ENV50204,	EN55024,	Light indus	stry level, c	riteria A				
	MTBF	139.9K hrs min. MIL-HDBK-217F (25℃)												
OTHERS	DIMENSION	199*99*50mm (L*W*H)												
	PACKING	0.87Kg; 20pcs/18.4Kg/1.28CUFT												
NOTE	2. Ripple & noise are measure3. Tolerance : includes set up	ally 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. dered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets												

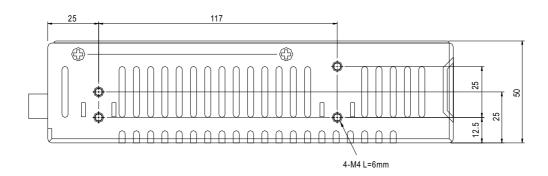
- 5. Derating may be needed under low input voltages. Please check the derating curve for more details.



■ Mechanical Specification

Case No. 916A Unit:mm



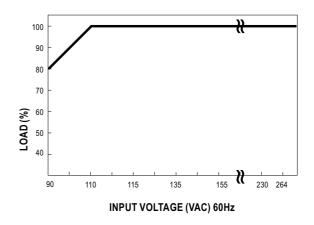


Terminal Pin No. Assignment:

Pin No.	Assignment	Pin No.	Assignment	Pin No.	Assignment
1	AC/L	4	DC OUTPUT V4	8,9	DC OUTPUT COM
2	AC/N	5	DC OUTPUT V3	10	DC OUTPUT V2
3	FG ±	6,7	DC OUTPUT V1		

■ Derating Curve

■ Output Derating VS Input Voltage







Features:

- Universal AC input / Full range
- Built-in active PFC function, PF>0.95
- Protections:Short circuit/Over load/Over voltage
- Free air cooling convection
- Fixed switching frequency at 100KHz(Optional)
- 3 years warranty



SPECIFICATION

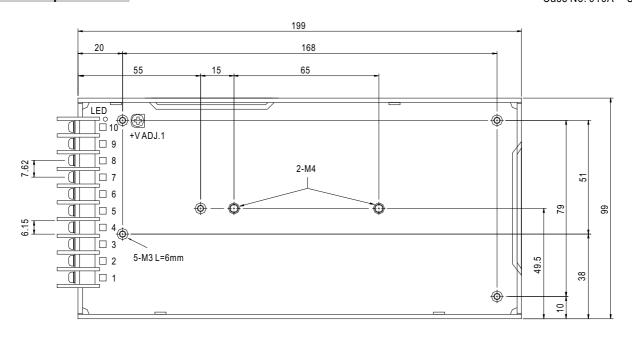
MODEL		QP-100B				QP-100C							
	OUTPUT NUMBER	CH1	CH2	CH3	CH4	CH1	CH2	CH3	CH4				
	DC VOLTAGE	5V	12V	-12V	-5V	5V	15V	-15V	-5V				
	RATED CURRENT	10A	3A	1A	0.6A	10A	2.2A	1A	0.6A				
	CURRENT RANGE	2 ~ 10A	0.3 ~ 4A	0.15 ~ 1A	0 ~ 1A	2 ~ 10A	0.3 ~ 3A	0.15 ~ 1A	0 ~ 1A				
	RATED POWER (max.)	101W		<u> </u>		101W							
OUTDUT	RIPPLE & NOISE (max.) Note.2	100mVp-p	150mVp-p	150mVp-p	100mVp-p	100mVp-p	150mVp-p	150mVp-p	100mVp-p				
OUTPUT	VOLTAGE ADJ. RANGE	CH1:4.75 ~ 5.5\	1			CH1:4.75 ~ 5.5V							
	VOLTAGE TOLERANCE Note.3	±3.0%	±6.0%	+10,-6%	±5.0%	±3.0%	+6,-10%	±8.0%	±5.0%				
	LINE REGULATION	±1.0%	±2.0%	±2.0%	±1.0%	±1.0%	±2.0%	±2.0%	±1.0%				
	LOAD REGULATION	±2.0%	±6.0%	±6.0%	±2.0%	±2.0%	±2.0%	±6.0%	±2.0%				
	SETUP, RISE TIME	1000ms, 50ms	Oms, 50ms at full load										
	HOLD TIME (Typ.)	24ms at full load	t										
	VOLTAGE RANGE Note.5	90 ~ 264VAC	127 ~ 370V	DC									
	FREQUENCY RANGE	47 ~ 63Hz											
	POWER FACTOR (Typ.)	PF>0.95/230VAC PF>0.98/115VAC at full load											
INPUT	EFFICIENCY (Typ.)	76%											
	AC CURRENT (Typ.)	1.5A/115VAC 0.75A/230VAC											
	INRUSH CURRENT (Typ.)	COLD START 40A											
	LEAKAGE CURRENT	<3.5mA / 240VAC											
	OVERLOAD	105 ~ 135% rated output power											
	OVER LOAD	Protection type : Hiccup mode, recovers automatically after fault condition is removed											
DDOTECTION	OVER VOLTAGE	CH1:5.75 ~ 6.75V											
PROTECTION	OVER VOLIAGE	Protection type : Shut down o/p voltage, re-power on to recover											
	OVER TEMPERATURE(OPTION)	95°C ±5°C (TSW1)											
	OVER TEMPERATURE(OPTION)	Protection type: Shut down o/p voltage, recovers automatically after temperature goes down											
	WORKING TEMP.	-10 ~ +60 $^{\circ}$ 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												
(Note 4)	HARMONIC CURRENT	Compliance to	EN61000-3-2,-3	3									
	EMS IMMUNITY	Compliance to	EN61000-4-2,3	,4,5,6,8,11; EN\	/50204, EN55024	1, Light industry	level, criteria A						
	MTBF	139.9K hrs min. MIL-HDBK-217F (25°C)											
OTHERS	DIMENSION	199*99*50mm (L*W*H)											
	PACKING	1.1Kg; 20pcs/22Kg/1.28CUFT											
NOTE	2. Ripple & noise are measure	cially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. ured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. up tolerance, line regulation and load regulation.											

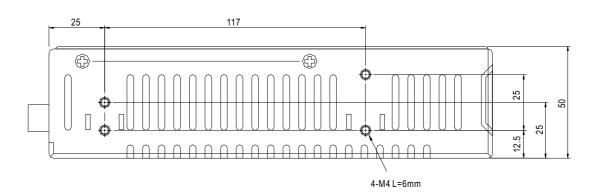
- 3. Tolerance: includes set up tolerance, line regulation and load regulation.
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■ Derating Curve

■ Output Derating VS Input Voltage

