



QP-100-3A

Features:

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

QP-100-3B

Rosal CBCE

QP-100-3C

SPECIFICATION

MODEL

NOUTPUT RATED POWER (max.) 99.4W 100W 100.9W RIPPLE & NOISE (max.) Note.2 100mVp-p 150mVp-p 100mVp-p 100mVp-p 150mVp-p	L		QP-100-34	A			QP-100-3	В			QP-100-3	C				
NATED CURRENT RANGE	OU	OUTPUT NUMBER	CH1	CH2	CH3	CH4	CH1	CH2	CH3	CH4	CH1	CH2	CH3	CH4		
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	DC	DC VOLTAGE	5V	3.3V	12V	-5V	5V	3.3V	12V	-12V	5V	3.3V	15V	-15V		
NOTECON POWER (max.) 99.4W 100.0W-p. 150mV-p.	RA	RATED CURRENT	8A	8A	2.5A	0.6A	8A	8A	2.2A	0.6A	8A	8A	1.7A	0.6A		
NUTPUT RIPPLE & NOISE (max.) Note.2 100mVp.p 100mVp.p 150mVp.p	CU	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		
VOLTAGE ADJ. RANGE	RA	RATED POWER (max.)	99.4W													
VOLTAGE FOLERANCE Notes 3 2,00% ±3.0% ±6.0% ±5	RIF	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 TOLERANCE Note.3 ±3.0% ±3.0% ±6.0% ±5.0% ±3.0% ±3.0% ±3.0% ±4.0% ±2.0% ±1.0% ±1.0% ±1.0% ±2.0% ±2.0% ±1.0% ±1.0% ±2.0%	NO II	VOLTAGE ADJ. RANGE	CH1: 4.75	~ 5.5V	CH2: 3.14	1 ~ 3.63V	CH1: 4.75	~ 5.5V	CH2: 3.14	~ 3.63V	CH1: 4.75	~ 5.5V	CH2: 3.14	~ 3.63V		
LOAD REGULATION	vo	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%		
SETUP, RISE TIME	LIN	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%		
HOLD UP TIME (Typ.) 24ms/230VAC	LO	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%		
VOLTAGE RANGE Note.5 90 - 264VAC 127 - 370VDC	SE	SETUP, RISE TIME	800ms, 50ms/230VAC 800ms, 50ms/115VAC at full load													
FREQUENCY RANGE 47 ~ 63Hz POWER FACTOR (Typ.) PF>0.95/230VAC PF>0.98/115VAC at full load	но	HOLD UP TIME (Typ.)														
POWER FACTOR (Typ.)	vo	VOLTAGE RANGE Note.5														
	FR	FREQUENCY RANGE														
	PO	POWER FACTOR (Typ.)														
INRUSH CURRENT (Typ.) COLD START ≤40A/230V			74%				74%				75%					
LEAKAGE CURRENT <3.5mA / 240VAC	AC	AC CURRENT (Typ.)														
LEAKAGE CURRENT <3.5mA / 240VAC	INF	NRUSH CURRENT (Typ.)														
PROTECTION OVER VOLTAGE OVER TEMPERATURE(OPTION) Protection type : Hiccup mode, recovers automatically after fault condition is removed CH1:5.75 ~ 6.75V CH2:3.8 ~ 4.4V Protection type : Shut down o/p voltage, re-power on to recover 95°C ±5°C (TSW1) Protection type : Shut down o/p voltage, recovers automatically after temperature goes down WORKING TEMP. WORKING TEMP. WORKING HUMIDITY 20 ~ 90% RH non-condensing STORAGE TEMP, HUMIDITY 10 ~ 460°C (Refer to output load derating curve) WORKING TEMP, HUMIDITY 10 ~ 90% RH non-condensing STORAGE TEMP, HUMIDITY 10 ~ 90% RH non-condensing STORAGE TEMP, HUMIDITY 10 ~ 90% RH non-condensing SAFETY STANDARDS UI.60950-1, TUV ENK0950-1 approved WITHSTAND VOLTAGE WITHSTAND VOLTAGE 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 / 25°C / 70% RH EMI CONDUCTION & RADIATION Compliance to EN61000-3-2,-3 EMS IMMUNITY 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 139.9K hrs min. MIL-HDBK-217F (25°C) DIMENSION 199*99*50mm (L*W*H) 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 0.1 uf & 47uf parallel capacitor.																
PROTECTION OVER VOLTAGE OVER TEMPERATURE(OPTION) Protection type: Shut down o/p voltage, re-power on to recover OVER TEMPERATURE(OPTION) Protection type: Shut down o/p voltage, re-power on to recover OVER TEMPERATURE(OPTION) WORKING TEMP. WORKING HUMIDITY 20 ~ 90% RH non-condensing STORAGE TEMP., HUMIDITY 20 ~ 90% RH non-condensing STORAGE TEMP., HUMIDITY 10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes SAFETY & SAFETY STANDARDS WITHSTAND VOLTAGE INP-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC ISOLATION RESISTANCE EMC (Note 4) HARMONIC CURRENT Compliance to EN55022 (CISPR22) Class B MTBF 139.9K hrs min. MIL-HDBK-217F (25°C) DIMENSION 199*99*50mm (L*W*H) PACKING 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.																
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OVER TEMPERATURE(OPTION) Protection type: Shut down o/p voltage, re-power on to recover																
WORKING TEMP. -10 ~ +60°C (Refer to output load derating curve)	CTION OV	OVER VOLTAGE	Protection type: Shut down o/p voltage, re-power on to recover													
WORKING TEMP. -10 ~ +60°C (Refer to output load derating curve)																
WORKING TEMP10 ~ +60°C (Refer to output load derating curve) WORKING HUMIDITY 20 ~ 90% RH non-condensing 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 \$ WITHSTAND VOLTAGE 1/P-0/P:3KVAC 1/P-FG:1.5KVAC 0/P-FG:0.5KVAC ISOLATION RESISTANCE 1/P-0/P;1/P-FG, 0/P-FG:100M 0hms / 500VDC / 25°C / 70% RH EMI CONDUCTION & RADIATION Compliance to EN55022 (CISPR22) Class B 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 139.9K hrs min. MIL-HDBK-217F (25°C) DIMENSION 199*99*50mm (L*W*H) PACKING 0.87Kg; 20pcs/18.4Kg/1.28CUFT 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.	ov	OVER TEMPERATURE(OPTION)	Protection type: Shut down o/p voltage, recovers automatically after temperature goes down													
ENVIRONMENT STORAGE TEMP., HUMIDITY -20 ~ +85°C, 10 ~ 95% RH TEMP. COEFFICIENT \(\frac{\pmathcal{D}}{\pmathcal{D}} \) 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 ISOLATION RESISTANCE EMI CONDUCTION & RADIATION Compliance to EN55022 (CISPR22) Class B 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 139.9K hrs min. MIL-HDBK-217F (25°C) DIMENSION 199*99*50mm (L*W*H) PACKING 0.87Kg; 20pcs/18.4Kg/1.28CUFT 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.	wc	WORKING TEMP.														
TEMP. COEFFICIENT	wc	WORKING HUMIDITY	- 1													
VIBRATION 10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes SAFETY STANDARDS UL.60950-1, TUV EN60950-1 approved 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 / 25°C / 70% RH EMI CONDUCTION & RADIATION Compliance to EN55022 (CISPR22) Class B 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 139.9K hrs min. MIL-HDBK-217F (25°C) DIMENSION 199*99*50mm (L*W*H) PACKING 0.87Kg; 20pcs/18.4Kg/1.28CUFT 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.	IMENT ST	STORAGE TEMP., HUMIDITY	-20 ~ +85°	℃, 10 ~ 95	% RH											
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 ISOLATION RESISTANCE I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH EMIC CONDUCTION & RADIATION Compliance to EN55022 (CISPR22) Class B 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 139.9K hrs min. MIL-HDBK-217F (25°C) DIMENSION 199*99*50mm (L*W*H) PACKING 0.87Kg; 20pcs/18.4Kg/1.28CUFT 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.	TE	TEMP. COEFFICIENT	±0.03%/°C	(0~50°C)												
WITHSTAND VOLTAGE I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC SOLATION RESISTANCE I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH	VIE	VIBRATION														
SAFETY & ISOLATION RESISTANCE	SA	SAFETY STANDARDS														
EMC (Note 4) EMI CONDUCTION & RADIATION Compliance to EN55022 (CISPR22) Class B 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 139.9K hrs min. MIL-HDBK-217F (25°C) DIMENSION 199*99*50mm (L*W*H) PACKING 0.87Kg; 20pcs/18.4Kg/1.28CUFT 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.		WITHSTAND VOLTAGE	I/P-O/P:3k	KVAC I/P	P-FG:1.5KV	AC O/P-	FG:0.5KVA	.C								
(Note 4) HARMONIC CURRENT Compliance to ENS5022 (CISPR22) Class B 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 139.9K hrs min. MIL-HDBK-217F (25°C) DIMENSION 199*99*50mm (L*W*H) PACKING 0.87Kg; 20pcs/18.4Kg/1.28CUFT 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.	Y & ISC	SOLATION RESISTANCE	I/P-O/P, I/I	P-FG, O/P-	FG:100M (Ohms / 500	VDC / 25°C	/70% RH								
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 139.9K hrs min. MIL-HDBK-217F (25°C) DIMENSION 199*99*50mm (L*W*H) PACKING 0.87Kg; 20pcs/18.4Kg/1.28CUFT 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.	EM	EMI CONDUCTION & RADIATION	Compliance to EN55022 (CISPR22) Class B													
MTBF 139.9K hrs min. MIL-HDBK-217F (25°C) DIMENSION 199*99*50mm (L*W*H) PACKING 0.87Kg; 20pcs/18.4Kg/1.28CUFT 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.	' HA	HARMONIC CURRENT	Compliance to EN61000-3-2,-3													
DIMENSION 199*99*50mm (L*W*H) PACKING 0.87Kg; 20pcs/18.4Kg/1.28CUFT 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.	EM	EMS IMMUNITY	Compliand	ce to EN61	000-4-2,3,4	4,5,6,8,11;	ENV50204	EN55024,	light indust	ry level, cr	iteria A					
PACKING 0.87Kg; 20pcs/18.4Kg/1.28CUFT 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.	MT	MTBF	139.9K hrs	s min. M	IIL-HDBK-2	217F (25°C))									
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.	RS DIN	DIMENSION	199*99*50	0mm (L*W*	H)											
2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.	PA	PACKING	0.87Kg; 20	0pcs/18.4K	(g/1.28CUF	-T										
 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 s 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) 5. Derating may be needed under low input voltages. Please check the derating curve for more details. 	2. 3. 4.	 Ripple & noise are measure Tolerance : includes set up The power supply is consid EMC directives. For guidan (as available on http://www. 	NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. ludes set up tolerance, line regulation and load regulation. ply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets s. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies." in http://www.meanwell.com)									meets				





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
- 3 years warranty

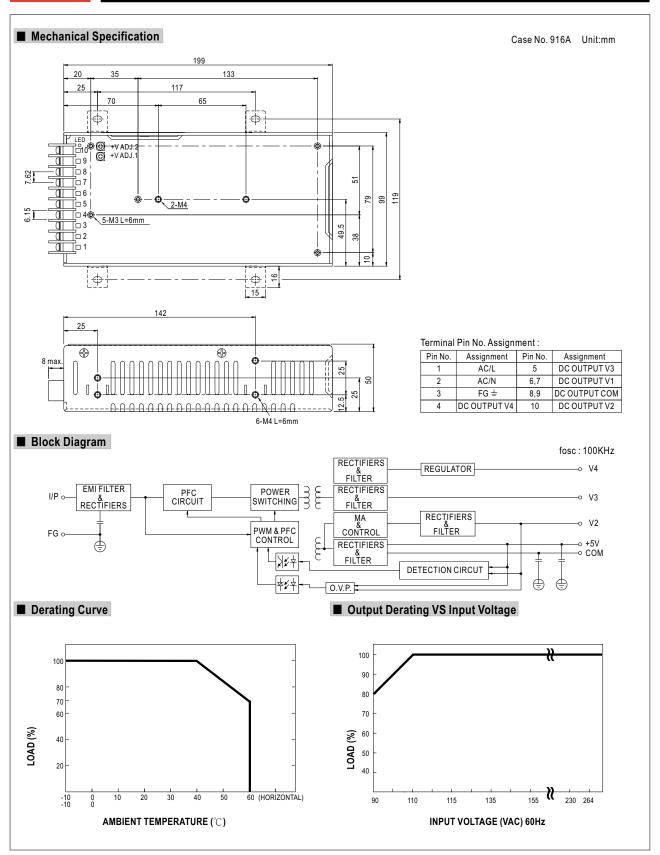
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SPECIFICATION

MODEL		QP-100-3	D			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	2 100mVp-p 100mVp-p 150mVp-p 150mVp-p				120mVp-p 150mVp-p 200mVp-p 150mVp-p				120mVp-p	180mVp-r	200mVp-p	150mVp	
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: 14.3	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, 50ms/230VAC 800ms, 50ms/115VAC at full load												
	HOLD UP TIME (Typ.)	24ms/230VAC 24ms/115VAC at full load												
	VOLTAGE RANGE Note.5	90 ~ 264VAC												
	FREQUENCY RANGE	47 ~ 63Hz												
	POWER FACTOR (Typ.)	PF>0.95/230VAC PF>0.98/115VAC at full load												
INPUT	EFFICIENCY (Typ.)	75%				78%				78%				
	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												
	OVERLOAD	Protection	type : Hice	cup mode, i	recovers au	utomatically	after fault	condition is	removed					
		Protection type: Hiccup mode, recovers automatically after fault condition is removed 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 ~ 20.20												
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	±0.03%/°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 / 25°C / 70% RH												
EMC	EMI CONDUCTION & RADIATION													
(Note 4)	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	139.9K hrs min. MIL-HDBK-217F (25°C)												
OTHERS	DIMENSION	199*99*50mm (L*W*H)												
-	PACKING				T									
NOTE	All parameters NOT specia Ripple & noise are measure Tolerance: includes set up The power supply is consid EMC directives. For guidan (as available on http://www.	0.87Kg; 20pcs/18.4Kg/1.28CUFT ly mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. d 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. ered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets be on how to perform these EMC tests, please refer to "EMI testing of component power supplies." meanwell.com) ider low input voltages. Please check the derating curve for more details.												

File Name:QP-100-SPEC 2010-10-18









Features:

- Universal AC input / Full range
- Built-in active PFC function, PF>0.95
- Protections: Short circuit / Overload / Over voltage
- Free air cooling convection
- Fixed switching frequency at 100KHz
- 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			1	101W								
	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\	/			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	at full load	•	'	'								
	HOLD UP TIME (Typ.)	24ms at full load												
	VOLTAGE RANGE Note.5	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.)	76% 77%												
	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 Protection type: Hiccup mode, recovers automatically after fault condition is removed												
		CH1:5.75 ~ 6.75V												
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 ~ 90% RH non-condensing												
LINVINONMENT	TEMP. COEFFICIENT													
	VIBRATION	±0.03%/°C (0~50°C) 10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes												
	SAFETY STANDARDS	UL60950-1, TUV EN60950-1 approved												
	WITHSTAND VOLTAGE		I/P-FG:1.5K\		0.5KVAC									
SAFETY &	ISOLATION RESISTANCE													
EMC (Note 4)	EMI CONDUCTION & RADIATION	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH Compliance to EN55022 (CISPR22) Class B												
	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	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	All parameters NOT specia Ripple & noise are measure Tolerance: includes set up The power supply is consid EMC directives. For guidan (as available on http://www.	ully 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 noe on how to perform these EMC tests, please refer to "EMI testing of component power supplies."												



