



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

SPECIFICATION CBCE

MODEL		QP-100-3	A			QP-100-3	В			QP-100-3C				
	OUTPUT NUMBER	CH1	CH2	CH3	CH4	CH1	CH2	CH3	CH4	CH1	CH2	CH3	CH4	
ОИТРИТ	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	2 100mVp-p 100mVp-p 150mVp-p 150mVp-			150mVp-p	100mVp-p	100mVp-p	150mVp-p	150mVp-p	100mVp-p 100mVp-p 150mVp-p 150mVp-p				
	VOLTAGE ADJ. RANGE	CH1: 4.75		CH2: 3.14		CH1: 4.75		CH2: 3.14		CH1: 4.75		CH2: 3.14		
	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 UP TIME (Typ.)	24ms/230VAC 24ms/115VAC at full load												
	VOLTAGE RANGE Note.5	90 ~ 264VAC 127 ~ 370VDC												
INPUT	FREQUENCY RANGE	47 ~ 63Hz												
	POWER FACTOR (Typ.)	PF>0.95/230VAC PF>0.98/115VAC at full load												
	EFFICIENCY (Typ.)	74%				74%				75%				
	AC CURRENT (Typ.)	1.5A/115VAC 0.75A/230VAC												
	INRUSH CURRENT (Typ.)	COLD START ≤ 40A/230V												
	LEAKAGE CURRENT	<3.5mA / 240VAC												
PROTECTION		105 ~ 150% rated output power												
	OVERLOAD	Protection type: Hiccup mode, recovers automatically after fault condition is removed												
		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(OPTION)	95°C±5°C (TSW1)												
		Protection type: Shut down o/p voltage, recovers automatically after temperature goes down												
	WORKING TEMP.	-10 ~ +60°C (Refer to "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 EN	60950-1 ap	proved									
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:1.5KVAC 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 4)	EMC EMISSION	Complian	ce to EN55	022 (CISPI	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									teria A					
OTHERS	MTBF	139.9K hr	s min. N	IIL-HDBK-2	217F (25°C)								
	DIMENSION	199*99*5	Omm (L*W*	'H)										
	PACKING	0.87Kg; 2	0pcs/18.4k	(g/1.28CUF	T									
NOTE	 All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. Tolerance: includes set up tolerance, line regulation and load regulation. 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) Derating may be needed under low input voltages. Please check the derating curve for more details. 													

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- 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





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SPECIFICATION

MODEL		QP-100-3	D			QP-100D				QP-100F				
ОИТРИТ	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-r	150mVp-p	150mVp-p	120mVp-p	150mVp-p	200mVp-p	150mVp-p	120mVp-p 180mVp-p 200mVp-p 150mVp-				
	VOLTAGE ADJ. RANGE	CH1: 4.75 ~ 5.5V												
	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		ms/230VA		0ms, 50ms			1	1		1-21070	1 - 1 - 1	1	
	HOLD UP TIME (Typ.)	24ms/230VAC 24ms/115VAC at full load												
INPUT	VOLTAGE RANGE Note.5	90 ~ 264VAC 127 ~ 370VDC												
	FREQUENCY RANGE	47 ~ 63Hz												
	POWER FACTOR (Typ.)	47 ~ 63HZ PF>0.95/230VAC PF>0.98/115VAC at full load												
	EFFICIENCY (Typ.)	75% 78% 78%												
	AC CURRENT (Typ.)	75% 78% 78% 78% 1.5A/115VAC 0.75A/230VAC												
	INRUSH CURRENT (Typ.)	1.5A/115VAC 0.75A/23UVAC 0.75A												
	LEAKAGE CURRENT	COLD START ≤ 40A/230V												
PROTECTION	LLANAGE CONNENT	3.5mA / 240VAC 105 ~ 150% rated output power												
	OVERLOAD	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 ~ 20.25												
	OVER VOLTAGE													
		Protection type: Shut down o/p voltage, re-power on to recover												
	OVER TEMPERATURE(OPTION)	Protection two: Shut down o/a voltage, recovers outematically after temperature goes down												
	WORKING TEMP.	Protection type: Shut down o/p voltage, recovers automatically after temperature goes down												
ENVIRONMENT		-10 ~ +60°C (Refer to "Derating Curve") 20 ~ 90% RH non-condensing												
	WORKING HUMIDITY		°C, 10 ~ 95											
	STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT		•											
		±0.03%/°C (0~50°C) 10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes												
	VIBRATION SAFETY STANDARDS			iin./ rcycle, 160950-1 ap		n along X,	r, z axes							
	WITHSTAND VOLTAGE				·	EC:0 EVV/	<u></u>							
SAFETY &	ISOLATION RESISTANCE													
EMC (Note 4)	EMC EMISSION			-FG: 100M (5022 (CISPI										
(14010 4)				•		-		ry level, cri	torio A					
	EMC IMMUNITY						igni mausii	y level, cri	lena A					
OTHERS	MTBF			/IL-HDBK-2	217F (25℃)								
	DIMENSION		0mm (L*W											
	PACKING	•	•	Kg/1.28CUF			1 10	=0a .f . !						
NOTE	Ripple & noise are measur Tolerance : includes set up The power supply is consic EMC directives. For guidan (as available on http://www	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. dered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets not now to perform these EMC tests, please refer to "EMI testing of component power supplies." v.meanwell.com) under low input voltages. Please check the derating curve for more details.												

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