



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

SPECIFICATION



MODEL		QP-100-3A				QP-100-3B				QP-100-3C				
	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	150mVp-p	
OUTPUT	VOLTAGE ADJ. RANGE	CH1: 4.75		CH2: 3.14		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%	±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, 50	ms/230VA	C 800	oms, 50ms/	115VAC at	full load							
	HOLD UP TIME (Typ.)	24ms/230VAC 24ms/115VAC at full load												
	VOLTAGE RANGE Note.5													
	FREQUENCY RANGE	47 ~ 63Hz												
	POWER FACTOR (Typ.)	PF>0.95/230VAC PF>0.98/115VAC at full load												
INPUT	EFFICIENCY (Typ.)	74% 74% 75%												
5.	AC CURRENT (Typ.)	1.5A/115VAC 0.75A/230VAC												
	INRUSH CURRENT (Typ.)	COLD START ≤40A/230V												
	LEAKAGE CURRENT	<3.5mA/240VAC												
		105 ~ 150	% rated ou	tput power										
	OVERLOAD	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-co	ndensing										
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-20 ~ +85°	℃, 10 ~ 95	% RH										
	TEMP. COEFFICIENT	±0.03%/°C	○ (0~50°C)											
	VIBRATION	10 ~ 500H	Iz, 2G 10m	in./1cycle,	60min. eacl	n along X, \	r, Z axes							
	SAFETY STANDARDS	UL60950-	1, TUV EN	60950-1 ap	proved									
CAFFTVO	WITHSTAND VOLTAGE	I/P-O/P:3	KVAC I/F	-FG:1.5KV	AC O/P-I	FG:0.5KVA	C							
SAFETY &	ISOLATION RESISTANCE	I/P-O/P, I/	P-FG, O/P-	FG:100M	Ohms / 500'	VDC / 25°C	/70% RH							
EMC (Note 4)	EMI CONDUCTION & RADIATION	Compliand	ce to EN55	022 (CISPF	R22) Class	В								
,	HARMONIC CURRENT	Complian	ce to EN61	000-3-2,-3										
	EMS IMMUNITY	Compliand	ce to EN61	000-4-2,3,4	1,5,6,8,11; I	ENV50204,	EN55024,	light indust	ry level, cri	iteria A				
OTHERS	MTBF	139.9K hrs min. MIL-HDBK-217F (25°C)												
	DIMENSION	199*99*50mm (L*W*H)												
	PACKING	0.87Kg; 20	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. 													
											⊢ile Name:Q	r-100-SPEC	2010-10-1	





Features:

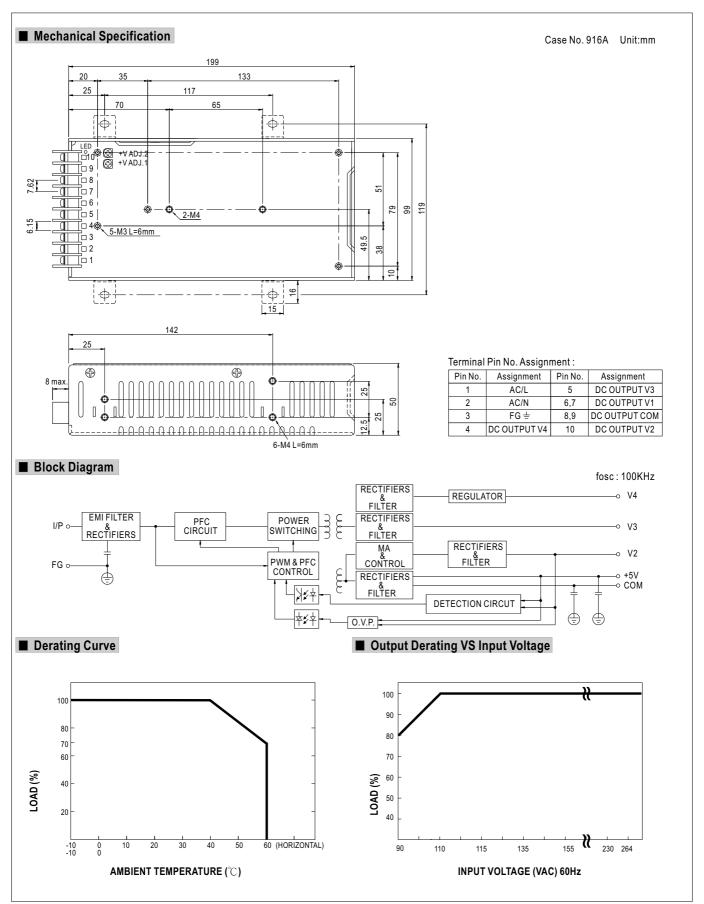
- Universal AC input / Full range
- Built-in active PFC function, PF>0.95
- Protections:Short circuit/Over load/Over voltage
- Free air cooling convection
- CH4:±Polarity is selectable
- Fixed switching frequency at 100KHz
- 3 years warranty

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					
OUTPUT	RIPPLE & NOISE (max.) Note.2	100mVp-p	100mVp-p	150mVp-p	150mVp-p	120mVp-p	150mVp-p	200mVp-p	150mVp-p	120mVp-p	180mVp-p	200mVp-p	150mVp-		
OUIPUI	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 127 ~ 370VDC													
	FREQUENCY RANGE	47 ~ 63Hz													
	POWER FACTOR (Typ.)	PF>0.95/2	30VAC	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													
	OVERLOAD	105 ~ 150% rated output power Protection type: Hiccup mode, recovers automatically after fault condition is removed													
		CH1:5.75		CH2:3.8		CH1:5.75				CH1·5 75	~ 6 75V	CH2:17.2	25 ~ 20.25\		
PROTECTION	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 ~ 20.25\ 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-co	ndensing		,									
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-20 ~ +85°	℃, 10 ~ 95	% RH											
	TEMP. COEFFICIENT	±0.03%/°(∵ (0~50°C)												
	VIBRATION	10 ~ 500H	Iz, 2G 10m	in./1cycle,	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													
SAFETY & EMC (Note 4)	WITHSTAND VOLTAGE	I/P-O/P:3I	KVAC I/F	-FG:1.5KV	AC O/P-	FG:0.5KVA	.C								
	ISOLATION RESISTANCE	I/P-O/P, I/	P-FG, O/P-	FG:100M	Ohms / 500	VDC / 25°C	/ 70% RH								
	EMI CONDUCTION & RADIATION	Complian	ce to EN55	022 (CISPI	R22) Class	В									
	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 indust	ry level, cr	iteria A					
OTHERS	MTBF	139.9K hr	s min. N	IIL-HDBK-2	217F (25°C)									
	DIMENSION	199*99*50	0mm (L*W*	H)											
	PACKING		0pcs/18.4K		T										
NOTE	All parameters NOT special Ripple & noise are measure Tolerance: includes set up The power supply is consid EMC directives. For guidan (as available on http://www. Derating may be needed ur	ed at 20MH tolerance, ered a con ce on how meanwell.	Iz of bands line regula aponent what to perform com)	width by us tion and lo nich will be these EM	sing a 12" t ad regulati installed in C tests, ple	wisted pair on. nto a final e ease refer	r-wire termi equipment. to "EMI tes	nated with The final e	a 0.1uf & 4	17uf paralle must be re	-confirmed		meets		









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				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\	i	•		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 ~ 370VI	DC										
	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												
DEOTECTION	OVER VOLTAGE	CH1:5.75 ~ 6.75V												
PROTECTION		Protection type : Shut down o/p voltage, re-power on to recover												
	OVED TEMPEDATURE (ORTION)	95°C ±5°C (TSW1)												
	OVER TEMPERATURE(OPTION)	Protection type: Shut down o/p voltage, recovers automatically after temperature goes down												
	WORKING TEMP.	-10 \sim +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												
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)	EMI CONDUCTION & RADIATION	Compliance to EN55022 (CISPR22) Class B												
	HARMONIC CURRENT	Compliance to EN61000-3-2,-3												
	EMS IMMUNITY	, light industry le	evel, 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 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. 													



