

### 100W Quad Output with PFC Function

## QP-100 series



#### 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	
OUTPUT	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 150mV				
	VOLTAGE ADJ. RANGE	CH1: 4.75	~ 5.5V	CH2: 3.14	4~3.63V	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 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>0.95/230VAC PF>0.98/115VAC at full load												
INPUT	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												
		105 ~ 150% rated output power												
	OVERLOAD	Protection type : Hiccup mode, recovers automatically after fault condition is removed												
PROTECTION		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)	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-co	ondensing										
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-20 ~ +85	°C, 10~95	5% RH										
	TEMP. COEFFICIENT	±0.03%	<sup>°</sup> ℃ (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:3	KVAC I/F	P-FG:2KVA	C O/P-FO	G: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	Compliance to EN55022 (CISPR22) Class B, EN61000-3-2,-3												
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, light industry level, criteria A												
OTHERS	MTBF	139.9K hrs min. MIL-HDBK-217F (25℃)												
	DIMENSION	199*99*50mm (L*W*H)												
	PACKING	0.87Kg; 20pcs/18.4Kg/1.28CUFT												
NOTE	<ol> <li>Ripple &amp; noise are measure</li> <li>Tolerance : includes set up</li> <li>The power supply is consid EMC directives. For guidan (as available on http://www.</li> </ol>	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. p 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 nce on how to perform these EMC tests, please refer to EMI testing of component power supplies.												



### 100W Quad Output with PFC Function

## QP-100 series



#### 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

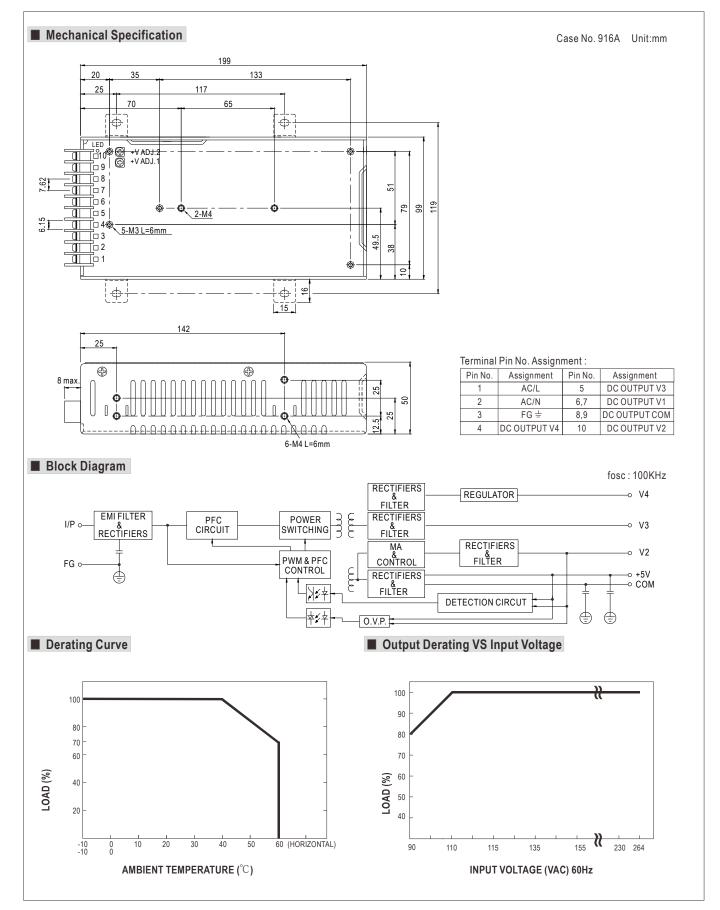


#### **SPECIFICATION**

MODEL		QP-100-3	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-				120mVp-p 150mVp-p 200mVp-p 150mVp-p				120mVp-p 180mVp-p 200mVp-p 150mVp						
OUTPUT	VOLTAGE ADJ. RANGE	CH1: 4.75 ~ 5.5V CH2: 3.14 ~ 3.63V				CH1: 4.75 ~ 5.5V CH2: 11.4 ~ 13.2V				CH1: 4.75 ~ 5.5V CH2: 14.3 ~ 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>0.95/230VAC 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 : Hiccup mode, recovers automatically after fault condition is removed														
PROTECTION		CH1:5.75	~6.75V	CH2:3.8	3~4.4V	CH1:5.75	~ 6.75V	CH2:13	.8 ~ 16.2V	CH1:5.75	~ 6.75V	CH2:17.2	25 ~ 20.25			
	OVER VOLTAGE	Protection type : Shut down o/p voltage, re-power on to recover														
	OVER TEMPERATURE(OPTION)	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	°C, 10~95	5% 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:2KVAC 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	Compliance to EN55022 (CISPR22) Class B, EN61000-3-2,-3														
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, light industry level, criteria 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	<ol> <li>Ripple &amp; noise are measure</li> <li>Tolerance : includes set up</li> <li>The power supply is consid EMC directives. For guidan (as available on http://www.</li> </ol>	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. udes 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 . For guidance on how to perform these EMC tests, please refer to EMI testing of component power supplies. http://www.meanwell.com) e needed under low input voltages. Please check the derating curve for more details.								meets						



## QP-100 series



File Name: QP-100-SPEC 2014-12-12



### 100W Quad Output with PFC Function

# QP-100B,C series



- 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					
OUTPUT	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								
	RIPPLE & NOISE (max.) Note.2	100mVp-p	150mVp-p	150mVp-p	100mVp-p	100mVp-p	150mVp-p	150mVp-p	100mVp-p					
	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												
NPUT	EFFICIENCY (Typ.)	76% 77%												
	AC CURRENT (Typ.)	1.5A/115VAC 0.75A/230VAC												
	INRUSH CURRENT (Typ.)	COLD START 40A												
	LEAKAGE CURRENT	<3.5mA / 240VAC												
		105 ~ 135% rated output power												
	OVERLOAD	Protection type : Hiccup mode, recovers automatically after fault condition is removed												
PROTECTION	OVER VOLTAGE	CH1:5.75 ~ 6.75V												
	OVER VOLIAGE	Protection type : Shut down o/p voltage, re-power on to recover												
	OVER TEMPERATURE(OPTION)	Shut down o/p voltage, recovers automatically after temperature goes down												
	WORKING TEMP.	-10 ~ +60 $^{\circ}\mathrm{C}$ (Refer to "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		-O/P:3KVAC I/P-FG:2KVAC 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	Compliance to EN55022 (CISPR22) Class B, EN61000-3-2,-3												
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, light industry level, criteria A												
OTHERS	MTBF	139.9K hrs min. MIL-HDBK-217F (25°C)												
	DIMENSION	199*99*50mm (L*W*H)												
	PACKING	1.1Kg; 20pcs/22Kg/1.28CUFT												
NOTE	<ol> <li>Ripple &amp; noise are measure</li> <li>Tolerance : includes set up</li> <li>The power supply is consid EMC directives. For guidan (as available on http://www.</li> </ol>	T specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. se set up tolerance, line regulation and load regulation. is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets or guidance on how to perform these EMC tests, please refer to EMI testing of component power supplies. tp://www.meanwell.com) eeded under low input voltages. Please check the derating curve for more details.												



# QP-100B,C series

