



#### ■ 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	
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	100mVp-p 100mVp-p 150mVp-p 150mVp-p			100mVp-p 100mVp-p 150mVp-p 150mVp-p				100mVp-p 100mVp-p 150mVp-p 150mVp-p					
	VOLTAGE ADJ. RANGE	CH1: 4.75	~ 5.5V	CH2: 3.14	~ 3.63V	CH1: 4.75 ~ 5.5V CH2: 3.14 ~ 3.63			~ 3.63V	CH1: 4.75 ~ 5.5V CH2: 3.14 ~ 3.63\			~ 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 180	00ms, 50ms	s/115VAC a	t full load							
	HOLD UP TIME (Typ.)	24ms/230VAC 24ms/115VAC at full load												
	VOLTAGE RANGE Note.4	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% 75%												
	AC CURRENT (Typ.)	1.5A/115VAC 0.75A/230VAC												
	INRUSH CURRENT (Typ.)	COLD START ≦50A/230V												
	LEAKAGE CURRENT	<3.5mA / 240VAC												
		105 ~ 150% rated output power												
	OVERLOAD	Protection type: Hiccup mode, recovers automatically after fault condition is removed												
PROTECTION	0VED VOLTA 0E	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)													
	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% RH non-condensing												
	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, EAC TP TC 004 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 5)	EMC EMISSION	Compliance to EN55032 (CISPR32) Class B, EN61000-3-2,-3, EAC TP TC 020												
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, light industry level, criteria A, EAC TP TC 020												
	MTBF	139.9K hrs min. MIL-HDBK-217F (25°C)												
OTHERS	DIMENSION	199*99*50mm (L*W*H)												
	PACKING	0.87Kg; 20pcs/18.4Kg/1.28CUFT												
NOTE	Ripple & noise are measure     Tolerance : includes set up     Derating may be needed ur     The power supply is consided a 360mm*360mm metal plane perform these EMC tests, p	specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.  leasured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.  set up tolerance, line regulation and load regulation.  leded under low input voltages. Please check the derating curve for more details.  considered a component which will be installed into a final equipment. All the EMC tests are been executed by mounting the unit on  etal plate with 1mm of thickness. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how to  tests, please refer to "EMI testing of component power supplies." (as available on http://www.meanwell.com)  ature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft).												





# ■ Features :

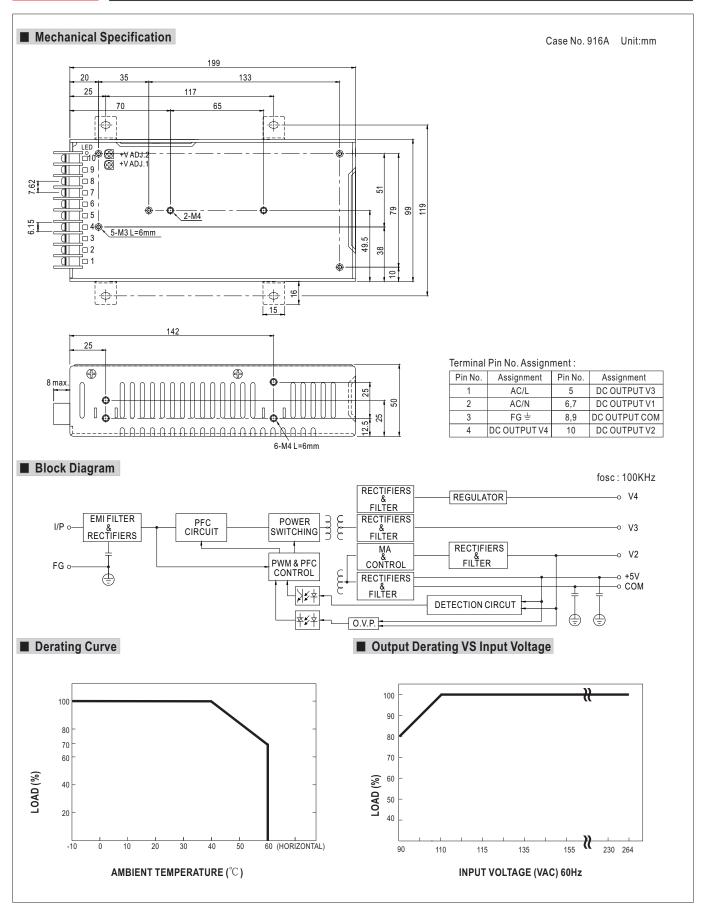
- Universal AC input / Full range
- Built-in active PFC function, PF>0.95
- Protections:Short circuit/Over load/Over voltage
- Free air cooling convection
- CH4: ±Polarity is selectable
- Fixed switching frequency at 100KHz
- 3 years warranty

## **SPECIFICATION**



DC VC RATE CURR RATE RIPPL VOLT/ VOLT/ LINE 6	PUT NUMBER //OLTAGE ED CURRENT RENT RANGE ED POWER (max.) PLE & NOISE (max.) Note.2 TAGE ADJ. RANGE TAGE TOLERANCE Note.3	CH1 5V 8A 2 ~ 10A 104.8W 100mVp-p	CH2 3.3V 8A 0~10A	CH3 24V 1.3A 0.3~2A	CH4 -12V 0.6A	CH1 5V	CH2	CH3	CH4	CH1	CH2	CH3	CH4	
OUTPUT RATE  OUTPUT RIPPL  VOLT/  VOLT/  LINE I	ED CURRENT RENT RANGE ED POWER (max.) PLE & NOISE (max.) Note.2 TAGE ADJ. RANGE	8A 2 ~ 10A 104.8W	8A	1.3A		5V	4014							
OUTPUT  CURR RATEI VOLT/ VOLT/ LINE I	RENT RANGE ED POWER (max.) PLE & NOISE (max.) Note.2 TAGE ADJ. RANGE	2 ~ 10A 104.8W	-	-	0.6A		12V	24V	-12V	5V	15V	24V	-15V	
OUTPUT RIPPL VOLT/ VOLT/ LINE I	ED POWER (max.) PLE & NOISE (max.) Note.2 TAGE ADJ. RANGE	104.8W	0 ~ 10A	0.3 ~ 2A		8A	2.4A	1A	0.6A	8A	2A	1A	0.6A	
OUTPUT RIPPL VOLTA	PLE & NOISE (max.) Note.2 TAGE ADJ. RANGE				0 ~ 1A	2 ~ 10A	0 ~ 3A	0.3 ~ 2A	0 ~ 1A	2 ~ 10A	0 ~ 3A	0.3 ~ 2A	0 ~ 1A	
VOLTA  VOLTA  LINE F	TAGE ADJ. RANGE	100mVp-p	104.8W			100W				103W				
VOLTA VOLTA LINE I		100mVp-p 100mVp-p 150mVp-p 150mVp-			150mVp-p	120mVp-p 150mVp-p 200mVp-p 150mVp-p				120mVp-p 180mVp-p 200mVp-p 150mVp-p				
LINE F	TAGE TOLERANCE Note 3	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	3 ~ 16.5V	
	IAGE TOLLIVATIOE HOLE.S	±3.0%	±3.0%	±6.0%	±5.0%	±3.0%	±3.0%	±6.0%	±5.0%	±3.0%	±3.0%	±6.0%	±5.0%	
LOAD	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	D REGULATION	$\pm 2.0\%$	$\pm 2.0\%$	$\pm 6.0\%$	±2.0%	±2.0%	±2.0%	$\pm6.0\%$	±2.0%	$\pm 2.0\%$	±2.0%	±6.0%	$\pm 2.0\%$	
SETU	UP, RISE TIME	800ms, 50	ms/230VA	C 180	00ms, 50ms	s/115VAC a	t full load							
HOLD	D UP TIME (Typ.)	24ms/230VAC 24ms/115VAC at full load												
VOLTA	TAGE RANGE Note.4	90 ~ 264VAC 127 ~ 370VDC												
FREQ	QUENCY RANGE	47 ~ 63Hz												
POWE	/ER FACTOR (Typ.)	PF>0.95/230VAC PF>0.98/115VAC at full load												
INPUT EFFIC	ICIENCY (Typ.)	75% 78% 78%												
AC CL	CURRENT (Typ.)	1.5A/115VAC 0.75A/230VAC												
INRUS	JSH CURRENT (Typ.)	COLD START ≦50A/230V												
LEAK	KAGE CURRENT	<3.5mA / 240VAC												
OVED	DLOAD	105 ~ 150% rated output power												
OVER	VERLOAD Protection type: Hiccup mode, recovers automatically after fault condition is removed													
PROTECTION	R 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									25 ~ 20.25V			
OVER	R VOLIAGE	Protection type: Shut down o/p voltage, re-power on to recover												
OVER	R TEMPERATURE(OPTION)													
	RKING TEMP.	-10 ~ +60 °C (Refer to "Derating Curve")												
	RKING HUMIDITY	20 ~ 90% RH non-condensing												
	RAGE TEMP., HUMIDITY	-20 ~ +85°C, 10 ~ 95% RH non-condensing												
	P. COEFFICIENT	±0.03%/°C (0~50°C)												
	RATION	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes												
	ETY STANDARDS	UL60950-1, TUV EN60950-1, EAC TP TC 004 approved												
OAI LIT &	HSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC												
LINIO	ATION RESISTANCE EMISSION	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH												
	IMMUNITY	Compliance to EN55032 (CISPR32) Class B, EN61000-3-2,-3, EAC TP TC 020												
MTBF		Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, light industry level, criteria A, EAC TP TC 020												
		139.9K hrs min. MIL-HDBK-217F (25°C)												
	ENSION	199*99*50mm (L*W*H)  0.87Kg; 20pcs/18.4Kg/1.28CUFT												
2. Rip 3. To 4. De 5. Th a 3 pe	all parameters NOT special Ripple & noise are measure olerance : includes set up of Derating may be needed un The power supply is conside 360mm*360mm metal plat berform these EMC tests, pl	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.  Inder low input voltages. Please check the derating curve for more details.  dered a component which will be installed into a final equipment. All the EMC tests are been executed by mounting the unit on ate with 1mm of thickness. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how to please refer to "EMI testing of component power supplies." (as available on http://www.meanwell.com)  derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft).												







#### ■ 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				
ОИТРИТ	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	0.0	0.10	10	101W							
	RIPPLE & NOISE (max.) Note.2	-	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/	230VAC 2	200ms, 50ms/11	5VAC at full load	1			-1				
	HOLD UP TIME (Typ.)	24ms at full load											
	VOLTAGE RANGE Note.4	90 ~ 264VAC 127 ~ 370VDC											
	FREQUENCY RANGE	47 ~ 63Hz											
	POWER FACTOR (Typ.)	PF>0.95/230VAC											
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											
		105 ~ 135% rated output power											
	OVERLOAD	Protection type : Hiccup mode, recovers automatically after fault condition is removed											
PROTECTION	OVED VOLTAGE	CH1:5.75 ~ 6.7	CH1:5.75 ~ 6.75V										
	OVER VOLTAGE	Protection type	: Shut down o/p	voltage, re-pow	er on to recover								
	OVER TEMPERATURE(OPTION)												
	WORKING TEMP.	-10 ~ +60°C (Refer to "Derating Curve")											
	WORKING HUMIDITY	20 ~ 90% RH non-condensing											
ENVIRONMENT	STORAGE TEMP., HUMIDITY	$-20 \sim +85^{\circ}$ C, $10 \sim 95\%$ RH non-condensing											
	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, EAC TP TC 004 approved											
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC											
EMC (Note 5)	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH											
	EMC EMISSION	Compliance to EN55032 (CISPR32) Class B, EN61000-3-2,-3, EAC TP TC 020											
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, light industry level, criteria A, EAC TP TC 020											
	MTBF	139.9K hrs min. MIL-HDBK-217F (25°C)											
OTHERS	DIMENSION	199*99*50mm (L*W*H)											
<b>PACKING</b> 1.1Kg; 20pcs/22Kg/1.28CUFT													
NOTE	Ripple & noise are measure     Tolerance : includes set up     Derating may be needed ur     The power supply is consided a 360mm metal plane perform these EMC tests, p	NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.  The are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. Soludes set up tolerance, line regulation and load regulation.  The beneded under low input voltages. Please check the derating curve for more details. Soludes are been executed by mounting the unit on minimized plate with 1mm of thickness. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how to EMC tests, please refer to "EMI testing of component power supplies." (as available on http://www.meanwell.com) emperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft).											
	5. The ambient temperature u	5.4m ig 5i 6.6 0/			5. 5 5, 1000ill W	1411 11100013 1		illa Nama: OP-100B	•				



