



■ Features :

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

SPECIFICATION



MODEL		QP-150-3A				QP-150-3	QP-150-3B				С					
	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	10A	10A	5A	0.6A	10A	10A	5A	0.6A	10A	10A	4A	0.6A			
	CURRENT RANGE	3 ~ 15A	0 ~ 15A	0.4 ~ 5A	0 ~ 1A	3 ~ 15A	0 ~ 15A	0.4 ~ 5A	0 ~ 1A	3 ~ 15A	0 ~ 15A	0.4 ~ 5A	0 ~ 1A			
	RATED POWER (max.)	146W				150.2W				152W						
OUTDUT	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						
OUTPUT	VOLTAGE ADJ. RANGE	CH1: 4.75	~ 5.5V	CH2: 3.14	4 ~ 3.63V	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, 50ms/230VAC 1800ms, 50ms/115VAC at full load														
	HOLD UP TIME (Typ.)	24ms/230VAC 24ms/115VAC at full load														
	VOLTAGE RANGE	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.)	73%				75%				74%						
	AC CURRENT (Typ.)	2.5A/115VAC 1.2A/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)															
	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 EN	60950-1, E	AC TP TC	004 approv	ed									
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 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														
OTHERS	MTBF	141.5K hrs min. MIL-HDBK-217F (25°C)														
	DIMENSION	199*99*50mm (L*W*H)														
	PACKING	0.93Kg; 20pcs/19.6Kg/1.28CUFT														
NOTE	2. Ripple & noise are measure	ially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. ured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.														
	The power supply is consid a 360mm*360mm metal pla perform these EMC tests, p	up tolerance, line regulation and load regulation. sidered a component which will be installed into a final equipment. All the EMC tests are been executed by mounting the unit on plate 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:

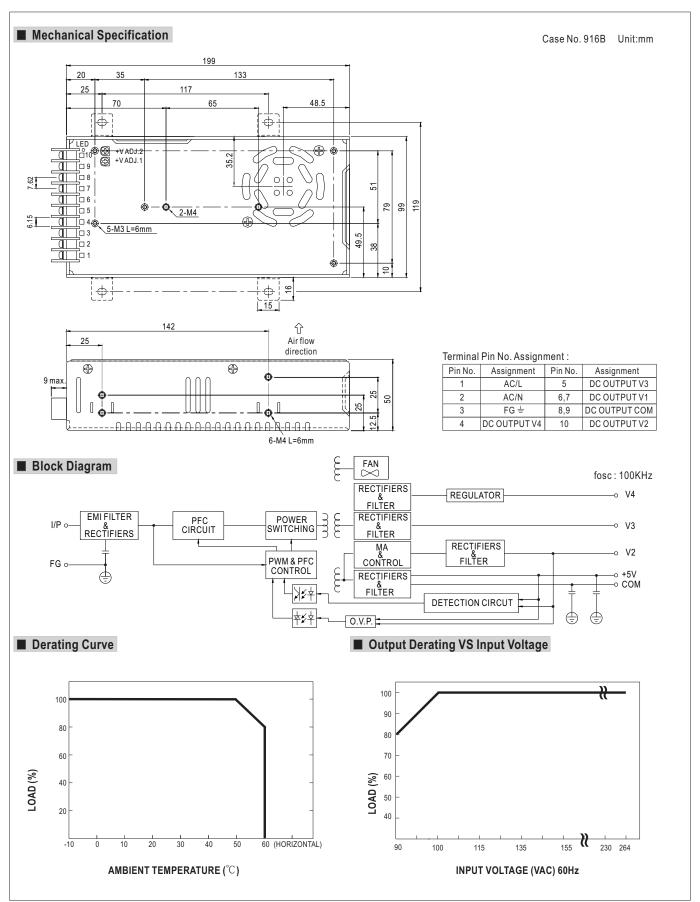
- Universal AC input / Full range
- Built-in active PFC function, PF>0.95
- Protections: Short circuit / Overload / Over voltage
- Forced air cooling by built-in DC fan
- CH4:±Polarity is selectable
- Fixed switching frequency at 100KHz
- 3 years warranty

SPECIFICATION



MODEL		QP-150-3D				QP-150D				QP-150F			
	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	10A	10A	2.5A	0.6A	10A	4A	2A	0.6A	10A	3A	2A	0.6A
	CURRENT RANGE	3 ~ 15A	0 ~ 15A	0.3 ~ 3A	0 ~ 1A	3 ~ 15A	0 ~ 5A	0.4 ~ 3A	0 ~ 1A	3 ~ 15A	0 ~ 5A	0.4 ~ 3A	0 ~ 1A
	RATED POWER (max.)	150.2W			'	153.2W			152W				
OUTDUT	RIPPLE & NOISE (max.) Note.2	100mVp-p	100mVp-p	150mVp-p	150mVp-p	120mVp-p	150mVp-p	200mVp-p	150mVp-p	120mVp-p	150mVp-p	200mVp-p	150mVp-p
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	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 1800ms, 50ms/115VAC at full load											
	HOLD UP TIME (Typ.)	24ms/230VAC 24ms/115VAC at full load											
	VOLTAGE RANGE	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% 78% 78%											
	AC CURRENT (Typ.)	2.5A/115VAC 1.2A/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	OVER VOLTA OF	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											
	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% 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 approved											
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3	KVAC I/F	P-FG:2KVA	C O/P-FC	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 EN55032 (CISPR32) 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	141.5K hrs min. MIL-HDBK-217F (25° C)											
	DIMENSION	199*99*50mm (L*W*H)											
	PACKING			(g/1.28CUF									
NOTE	Ripple & noise are measure Tolerance : includes set up The power supply is consid a 360mm*360mm metal pla perform these EMC tests, p	Illy 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. lered 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 blease refer to "EMI testing of component power supplies." (as available on http://www.meanwell.com) lerating 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
- Forced air cooling by built-in DC fan
- Fixed switching frequency at 100KHz
- 3 years warranty

SPECIFICATION



MODEL		QP-150B				QP-150C								
	OUTPUT NUMBER	CH1	CH2	CH3	CH4	CH1	CH2	CH3	CH4					
	DC VOLTAGE	5V	12V	-12V	-5V	5V	15V	-15V	-5V					
	RATED CURRENT	15A	4A	2A	0.6A	15A	3A	2A	0.6A					
	CURRENT RANGE	3 ~ 15A	0.4 ~ 5A	0.3 ~ 2A	0 ~ 1A	3 ~ 15A	0.4 ~ 4A	0.3 ~ 2A	0 ~ 1A					
	RATED POWER (max.)	150W	<u>'</u>	'		153W								
CUTDUT	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%	±6.0%	±6.0%	±2.0%					
	SETUP, RISE TIME	1000ms, 50ms/230VAC 2200ms, 50ms/115VAC at full load												
	HOLD UP TIME (Typ.)	24ms at full load												
	VOLTAGE RANGE	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.)	2.5A/115VAC 1.2A/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 °C (Refer to "Derating Curve")												
	WORKING HUMIDITY	20 ~ 90% RH non-condensing												
ENVIRONMENT	STORAGE TEMP., HUMIDITY	$-20 \sim +85 ^{\circ}\mathrm{C}$, $10 \sim 95 ^{\circ}\mathrm{RH}$ 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			EAC TP TC 004 a										
SAFETY &	WITHSTAND VOLTAGE			AC O/P-FG:0.5										
EMC	ISOLATION RESISTANCE				:/25°C/70% RH									
(Note 4)	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	141.5K hrs min. MIL-HDBK-217F (25° C)												
OTHERS	DIMENSION	199*99*50mm (L*W*H)												
	PACKING 1.1Kg; 20pcs/22Kg/1.28CUFT													
NOTE	Ripple & noise are measure Tolerance : includes set up The power supply is conside a 360mm*360mm metal plate perform these EMC tests, p	lly mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. ad 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. tered 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 blease refer to "EMI testing of component power supplies." (as available on http://www.meanwell.com) erating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft).												



