



## 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-150-3B				QP-150-3C				
	OUTPUT NUMBER	CH1	CH2	CH3	CH4	CH1	CH2	СНЗ	CH4	CH1	CH2	СНЗ	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			1	150.2W				152W				
	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-r	
OUTPUT	VOLTAGE ADJ. RANGE	CH1: 4.75	~ 5.5V	CH2: 3.14	1 ~ 3.63V	CH1: 4.75	~ 5.5V	CH2: 3.14	1 ~ 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 800ms, 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%												
	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												
		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-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												
	WITHSTAND VOLTAGE	I/P-O/P:3I	KVAC I/F	-FG:1.5KV	AC O/P-	FG:0.5KVA	C							
SAFETY &	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH												
EMC (Note 4)	<b>EMI CONDUCTION &amp; RADIATION</b>	Compliance to EN55022 (CISPR22) Class B												
(Note 4)	HARMONIC CURRENT	Compliance to EN61000-3-2,-3												
	EMS IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204, EN55024, light industry level, criteria A												
	MTBF	141.5K hrs min. MIL-HDBK-217F (25℃)												
OTHERS	DIMENSION	199*99*50mm (L*W*H)												
	PACKING	0.93Kg; 2	0pcs/19.6K	g/1.28CUF	Т									
NOTE	Ripple & noise are measure     Tolerance : includes set up     The power supply is consid     EMC directives. For guidan	rameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.  & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.  Ince: includes set up tolerance, line regulation and load regulation.  Ower supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies."  railable on http://www.meanwell.com)												





## Features:

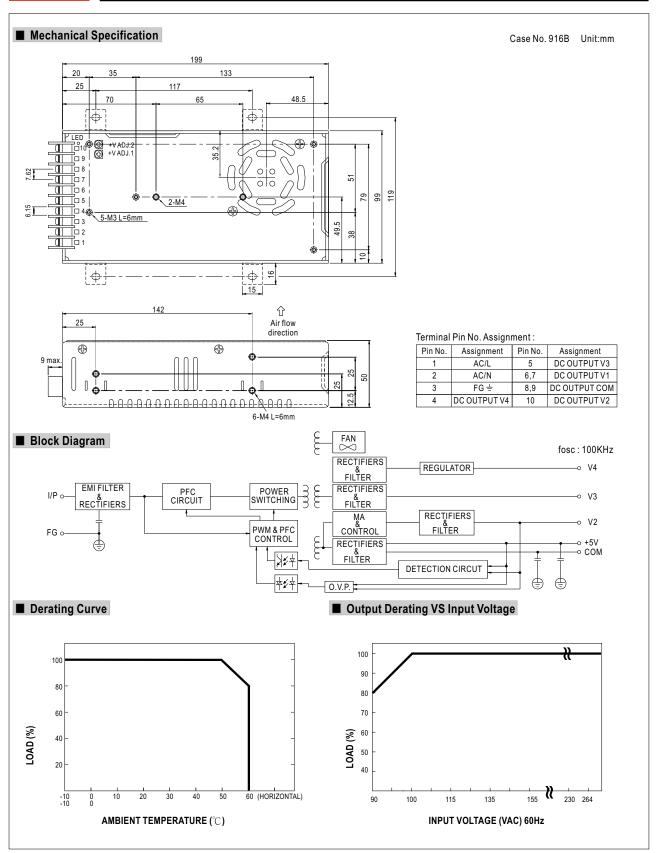
- Universal AC input / Full range
- Built-in active PFC function, PF>0.95
- Protections: Short circuit / Overload / Over voltage
- Forced air cooling by built-in DC fan
- CH4:±Polarity is selectable
- Fixed switching frequency at 100KHz
- 3 years warranty



# **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				150.2W				152W				
	RIPPLE & NOISE (max.) Note.2	100mVp-p	100mVp-r	150mVp-p	150mVp-p	120mVp-p 150mVp-p 200mVp-p 150mVp-p				120mVp-p 150mVp-p 200mVp-p 150mVr				
OUTPUT	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 ~ 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, 50	ms/230VA	.C 80	0ms, 50ms	/115VAC at	full load		•	'	•			
	HOLD UP TIME (Typ.)	24ms/230VAC 24ms/115VAC at full load												
	VOLTAGE RANGE	90 ~ 264\	'AC 1	27 ~ 370VD	C									
	FREQUENCY RANGE	47 ~ 63Hz												
	POWER FACTOR (Typ.)	PF>0.95/2	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												
		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 ~ 20.29												
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.			o output loa										
	WORKING HUMIDITY	20 ~ 90%	RH non-co	ndensing										
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-20 ~ +85	℃, 10 ~ 95	5% RH										
	TEMP. COEFFICIENT	±0.03%/°	∵ (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									
	WITHSTAND VOLTAGE	I/P-O/P:3	KVAC I/I	P-FG:1.5KV	AC O/P-	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)	<b>EMI CONDUCTION &amp; RADIATION</b>	Complian	ce to EN55	022 (CISPI	R22) Class	В								
(NOTE 4)	HARMONIC CURRENT	Complian	ce to EN61	000-3-2,-3										
	EMS IMMUNITY	Complian	ce to EN61	000-4-2,3,4	4,5,6,8,11;	ENV50204	, EN55024,	light indus	try level, cr	iteria A				
	MTBF	141.5K hi	s min. N	/IL-HDBK-2	217F (25°C	)								
OTHERS	DIMENSION	199*99*50mm (L*W*H)												
-	PACKING		•	 (g/1.28CUF	T									
NOTE	All parameters NOT specia     Ripple & noise are measure     Tolerance: includes set up     The power supply is consid     EMC directives. For guidan     (as available on http://www.	ed at 20Mb tolerance, lered a cor ce on how	Iz of band line regula nponent w to perforn	width by us ation and lo hich will be	sing a 12" i ad regulati installed i	twisted pail ion. nto a final	r-wire termi equipment.	inated with $\cdot$ The final $\cdot$	a 0.1uf & a	47uf parall must be re	-confirme		meets	









## 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					
ОИТРИТ	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				153W								
	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\	1			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 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												
		CH1:5.75 ~ 6.75V												
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-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												
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC												
SAFETY &	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH												
EMC (Note 4)	<b>EMI CONDUCTION &amp; RADIATION</b>	Compliance to EN55022 (CISPR22) Class B												
(Note 4)	HARMONIC CURRENT	Compliance to EN61000-3-2,-3												
	EMS IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204, 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	1.1Kg; 20pcs/22Kg/1.28CUFT												
NOTE	<ul><li>2. Ripple &amp; noise are measure</li><li>3. Tolerance : includes set up</li><li>4. The power supply is considered</li></ul>	lly 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. The final equipment must be re-confirmed that it still meets  ce on how to perform these EMC tests, please refer to "EMI testing of component power supplies."  .meanwell.com)												

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