

QP-150 series



■ 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



■ GTIN CODE

SPECIFICATION

MODEL		QP-150-3A			QP-150-3B			QP-150-3C					
	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	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			
	RIPPLE & NOISE (max.) Note.2	100mVp-p	100mVp-p	150mVp-p	150mVp-p	100mVp-p	100mVp-	p 150mVp-p	150mVp-p		100mVp-r	150mVp-r	150mVr
DUTPUT	VOLTAGE ADJ. RANGE	CH1: 4.75		CH2: 3.14		CH1: 4.75		CH2: 3.14			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/230	VAC :	24ms/115V	AC at full lo	ad							
	VOLTAGE RANGE	90 ~ 264\	/AC 1:	27 ~ 370VE	C								
	FREQUENCY RANGE	47 ~ 63Hz											
	POWER FACTOR (Typ.)	PF>0.95/230VAC PF>0.98/115VAC at full load											
NPUT	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											
PROTECTION		CH1:5.75 ~ 6.75V CH2:3.8 ~ 4.4V											
ROILOIION	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		°C, 10 ~ 95		-condensin	n							
	TEMP. COEFFICIENT				oondonom	9							
	VIBRATION	±0.03%/°C (0~50°C) 10~500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes											
	SAFETY STANDARDS	UL60950-1, TUV BS EN/EN62368-1, EAC TP TC 004 approved											
SAFETY &	WITHSTAND VOLTAGE					G:0.5KVAC							
	ISOLATION RESISTANCE												
EMC (Note 4)	EMC EMISSION	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH											
,,	EMC IMMUNITY	Compliance to BS EN/EN55032 (CISPR32) Class B, BS EN/EN61000-3-2,-3, EAC TP TC 020											
	MTBF	Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN55035, light industry level, EAC TP TC 020											
OTHERS	DIMENSION	1763.3K hrs min. Telcordia SR-332 (Bellcore) ; 262.6K hrs min. MIL-HDBK-217F (25°C) 199*99*50mm (L*W*H)											
OTHERS	PACKING				т								
NOTE	All parameters NOT special Ripple & noise are measure Tolerance : includes set up The power supply is consid a 360mm*360mm metal pla perform these EMC tests, p (as available on https://www The ambient temperature di	0.93Kg; 20pcs/19.6Kg/1.21CUFT ly mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. and at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 μ F & 47 μ F parallel capacitor. tolerance, line regulation and load regulation. ered a component which will be installed into a final equipment. All the EMC tests are been executed by mounting the unit on the with 1mm of thickness. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how to lease refer to "EMI testing of component power supplies." μ.meanwell.com//Upload/PDF/EMI_statement_en.pdf) erating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft). For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx											



QP-150 series



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



■ GTIN CODE

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			1	153.2W			152W					
	, ,	100mVp-p	100mVp-r	150mVp-r	150mVp-p	120mVp-p	150mVp-	p 200mVp-r	150mVp-p	120mVp-r	120mVp-p 150mVp-p 200mVp-p 150mVp			
DUTPUT	VOLTAGE ADJ. RANGE	CH1: 4.75	-		4 ~ 3.63V	CH1: 4.75			4 ~ 13.2V	CH1: 4.75			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	0VED VOI 74.05	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-co	ondensing										
ENVIRONMENT	STORAGE TEMP., HUMIDITY	$-20 \sim +85$ °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 BS EN/EN62368-1, EAC TP TC 004 approved												
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3	KVAC I/I	P-FG:2KVA	.C O/P-F	G:0.5KVAC								
EMC	ISOLATION RESISTANCE	I/P-O/P, I	/P-FG, O/P	-FG:100M	Ohms / 500	VDC / 25°C	70% RH							
(Note 4)	EMC EMISSION	Complian	ice to BS E	N/EN55032	(CISPR32) Class B, E	BS EN/EN6	61000-3-2,-	3, EAC TP 1	ΓC 020				
	EMC IMMUNITY	Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN55035, light industry level, EAC TP TC 020												
OTHERS	MTBF	1763.3K	hrs min.	Telcordia S	SR-332 (Be	llcore); 262	2.6K hrs m	in. MIL-F	IDBK-217F	(25°C)				
	DIMENSION	199*99*50mm (L*W*H)												
	PACKING	0.93Kg; 2	20pcs/19.6l	(g/1.21CUI	-T									
NOTE	Ripple & noise are measure Tolerance : includes set up The power supply is consid a 360mm*360mm metal pla perform these EMC tests, p (as available on https://www.	ed at 20MH tolerance, ered a con te with 1mH lease refer v.meanwell	1.93Kg; 20pcs/19.6Kg/1.21CUFT mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 μ F & 47 μ F parallel capacitor. lerance, line regulation and load regulation. ed a component which will be installed into a final equipment. All the EMC tests are been executed by mounting the unit on with 1mm of thickness. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how to ase refer to "EMI testing of component power supplies." neanwell.com//Upload/PDF/EMI_statement_en.pdf) ating 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 derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft).

※ Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx



QP-150 series



■ 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



■ GTIN CODE

MW Search: https://www.meanwell.com/serviceGTIN.aspx

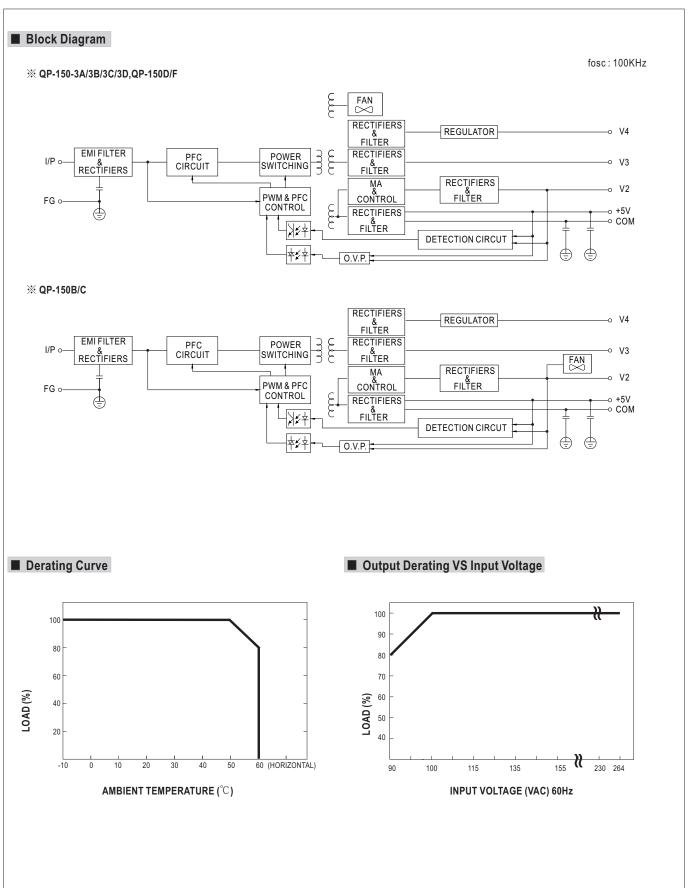
SPECIFICATION

C 10050-1 US	BS EN/EN62368-1 TPTC004	CB IEC62368-1	CE	CF

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							
QUEDUE	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\	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/	230VAC 2	200ms, 50ms/11	5VAC at full load								
	HOLD UP TIME (Typ.)	24ms at full load											
	VOLTAGE RANGE	90 ~ 264VAC											
	FREQUENCY RANGE	47 ~ 63Hz											
	POWER FACTOR (Typ.)	PF>0.95/230VA	.C PF>0.98/	115VAC at full lo	ad								
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 Protection type: Hiccup mode, recovers automatically after fault condition is removed											
	OVERLOAD												
PROTECTION		CH1:5.75 ~ 6.75V											
	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, TU	V BS EN/EN623	68-1, EAC TP T	C 004 approved								
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3KVAC	I/P-FG:2KVA	C O/P-FG:0.5	KVAC								
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 BS EN/EN55032 (CISPR32) Class B, BS EN/EN61000-3-2,-3, EAC TP TC 020											
	EMC IMMUNITY	Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN55035, light industry level, EAC TPTC 020											
	MTBF	1763.3K hrs min. Telcordia SR-332 (Bellcore) ; 262.6K hrs min. MIL-HDBK-217F (25°C)											
OTHERS	DIMENSION	199*99*50mm (L*W*H)											
	PACKING	1.1Kg; 20pcs/2											
NOTE	Ripple & noise are measure Tolerance : includes set up The power supply is consided a 360mm*360mm metal plate perform these EMC tests, placed (as available on https://www.	eters 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 0.1 μ F & 47 μ F parallel capacitor. e: includes set up tolerance, line regulation and load regulation. er supply is considered a component which will be installed into a final equipment. All the EMC tests are been executed by mounting the unit on "360mm metal plate with 1mm of thickness. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how to hese EMC tests, please refer to "EMI testing of component power supplies." ible on https://www.meanwell.com//Upload/PDF/EMI_statement_en.pdf) ent temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft).											



QP-150 series



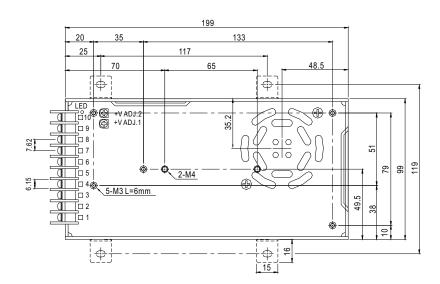


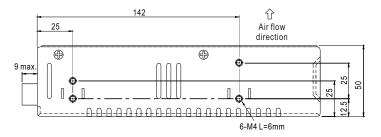
QP-150 series

■ Mechanical Specification

(Unit: mm , tolerance ± 1mm)

Case No. 916B Unit:mm





Terminal Pin No. Assignment:

	0					
Pin No.	Assignment	Pin No.	Assignment			
1	AC/L	5	DC OUTPUT V3			
2	AC/N	6,7	DC OUTPUT V1			
3	FG ±	8,9	DC OUTPUT COM			
4	DC OUTPUT V4	10	DC OUTPUT V2			

■ Installation Manual

Please refer to : http://www.meanwell.com/manual.html