

QP-150 series

R: Mus A HI CBCEK



■ 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

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

SPECIFICATION

SPECIFIC	ATION							UL62368	-1 R2 EV	I/EN62368-1 T		C62368-1			
MODEL		QP-150-3	A			QP-150-3				QP-150-3	_		1		
	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						
OUTPUT	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	4 ~ 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%	$\pm 6.0\%$	±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 2	24ms/115V	AC at full lo	ad									
	VOLTAGE RANGE	90 ~ 264V	/AC 12	27 ~ 370VE	C										
	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)	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 non-	-condensin	a									
	TEMP. COEFFICIENT	-20 ~ +85°C, 10 ~ 95% RH non-condensing ± 0.03%°C (0~50°C)													
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes													
	SAFETY STANDARDS	UL62368-1, TUV BS EN/EN62368-1, 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 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/EN30032 (GISF N32) Glass B, BS EN/EN01000-2-2,-3, EAC TF TC 020 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 SR-332 (Bellcore); 262.6K hrs min. MIL-HDBK-217F (25°C)													
	DIMENSION	199*99*50mm (L*W*H)													
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 The ambient temperature d	O.93Kg; 20pcs/19.6Kg/1.21CUFT All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. Folerance: includes set up tolerance, line regulation and load regulation. The power supply is considered a component which will be installed into a final equipment. All the EMC tests are been executed by mounting the unit of a 360mm*360mm metal plate with 1mm of thickness. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how perform these EMC tests, please refer to "EMI testing of component power supplies." (as available on http://www.meanwell.com) 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(650) Product Liability Disclaimer: For datailed information, please refer to https://www.meanwell.com/centiceDisclaimer.apx								n how to					

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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

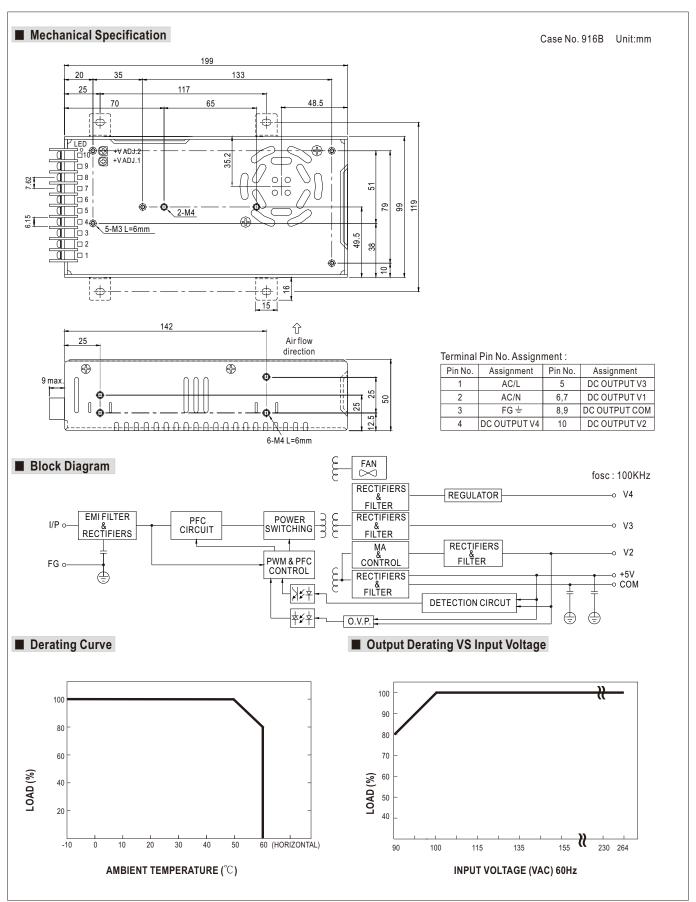
MODEL		QP-150-3D				QP-150D				QP-150F				
	OUTPUT NUMBER	CH1	CH2	CH3	CH4	CH1	CH2	CH3	CH4	CH1	CH2	CH3	CH4	
	DC VOLTAGE	5V	3.3V	24V	-12V	5V	12V	24V	-12V	5V	15V	24V	-15V	
	RATED CURRENT	10A	10A	2.5A	0.6A	10A	4A	2A	0.6A	10A	3A	2A	0.6A	
	CURRENT RANGE	3 ~ 15A	0 ~ 15A	0.3 ~ 3A	0 ~ 1A	3 ~ 15A	0 ~ 5A	0.4 ~ 3A	0 ~ 1A	3 ~ 15A	0 ~ 5A	0.4 ~ 3A	0 ~ 1A	
	RATED POWER (max.)	150.2W		0.0 0.1	10	153.2W				152W				
	, ,		100mVp-r	150mVp-r	150mVp-r	120mVp-p 150mVp-p 200mVp-p 150mVp-p								
DUTPUT	VOLTAGE ADJ. RANGE	CH1: 4.75			4 ~ 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%	±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		1	1				- 0.0 /0	- 2.0 /0	- 2.0 /0	- 2.070		<u> 2.07</u>	
	HOLD UP TIME (Typ.)	800ms, 50ms/230VAC 1800ms, 50ms/115VAC at full load												
	VOLTAGE RANGE	24ms/230VAC 24ms/115VAC at full load												
		90 ~ 264VAC 127 ~ 370VDC												
	FREQUENCY RANGE	47 ~ 63Hz												
INPUT	POWER FACTOR (Typ.)	PF>0.95/230VAC PF>0.98/115VAC at full load												
	EFFICIENCY (Typ.)	76% 78%												
	AC CURRENT (Typ.)	2.5A/115VAC 1.2A/230VAC												
	INRUSH CURRENT (Typ.)	COLD START ≦40A/230V												
	LEAKAGE CURRENT	<3.5mA / 240VAC												
	OVERLOAD	105 ~ 150% rated output power												
	OVEREDAD	Protection type: Hiccup mode, recovers automatically after fault condition is removed												
PROTECTION	OVER 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 ~ 20.2												
		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	$-20 \sim +85^{\circ}\mathrm{C}$, $10 \sim 95\%$ 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	UL62368-1, TUV BS EN/EN62368-1, 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 4)	EMC EMISSION	Complian	ce to BS E	N/EN55032	(CISPR32) Class B, E	BS EN/EN	61000-3-2,-	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 TP TC 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	0.93Kg; 20pcs/19.6Kg/1.21CUFT												
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	0.93Kg; 20pcs/19.6Kg/1.21CUFT Ily mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. But 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. The final equipment at load regulation are dependent 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 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).												

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QP-150 series





QP-150B,C 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



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MODEL		QP-150B				QP-150C							
	OUTPUT NUMBER	CH1	CH2	CH3	CH4	CH1	CH2	СНЗ	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				153W	-						
	RIPPLE & NOISE (max.) Note.2	100mVp-p	150mVp-p	150mVp-p	100mVp-p	100mVp-p	150mVp-p	150mVp-p	100mVp-p				
DUTPUT	VOLTAGE ADJ. RANGE	CH1:4.75 ~ 5.5	5V			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											
NPUT	EFFICIENCY (Typ.)	76% 77%											
	AC CURRENT (Typ.)	2.5A/115VAC 1.2A/230VAC											
	INRUSH CURRENT (Typ.)	COLD START ≦40A											
	LEAKAGE CURRENT	<3.5mA/240VAC											
	0//50/ 040	105 ~ 135% rated output power											
	OVERLOAD	Protection typ	e : Hiccup mod	e, recovers auto	matically after fau	It condition is re	emoved						
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 ~ +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	UL62368-1, TUV BS EN/EN62368-1, EAC TP TC 004 approved											
SAFETY &	WITHSTAND VOLTAGE			VAC O/P-FG:0									
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 TP TC 020											
OTHERS	MTBF	1763.3K hrs min. Telcordia SR-332 (Bellcore) ; 262.6K hrs min. MIL-HDBK-217F (25°C)											
	DIMENSION	199*99*50mm (L*W*H)											
	PACKING	1.1Kg; 20pcs/22Kg/1.21CUFT											
IOTE	All parameters NOT special Ripple & noise are measure Tolerance : includes set up The power supply is consid a 360mm*360mm metal pla	ed at 20MHz of tolerance, line ered a compor	bandwidth by regulation and nent which will	using a 12" twis load regulation. be installed into	ted pair-wire term a final equipment	ninated with a 0	0.1uf & 47uf para ests are been ex	ecuted by mour					

perform these EMC tests, please refer to "EMI testing of component power supplies." (as available on http://www.meanwell.com)

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).



QP-150B,C series

