



## ■ 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

MODEL		QP-150-3A				QP-150-3B				QP-150-3C					
	OUTPUT NUMBER	CH1	CH2	CH3	CH4	CH1	CH2	CH3	CH4	CH1	CH2	СНЗ	CH4		
OUTPUT	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	10.1	10		150.2W				152W					
	· /		100mVp-p	150mVp-p	150mVp-p	100mVp-p 100mVp-p 150mVp-p 150mVp-p									
	VOLTAGE ADJ. RANGE	CH1: 4.75		CH2: 3.14		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													
INPUT	VOLTAGE RANGE	90 ~ 264VAC 127 ~ 370VDC													
	FREQUENCY RANGE	47 ~ 63Hz													
	POWER FACTOR (Typ.)	PF>0.95/230VAC PF>0.98/115VAC at full load													
	EFFICIENCY (Typ.)	73%													
	AC CURRENT (Typ.)	2.5A/115VAC 1.2A/230VAC													
	INRUSH CURRENT (Typ.)	COLD START ≤40A/230V													
	LEAKAGE CURRENT	<3.5mA / 240VAC													
PROTECTION		105 ~ 150% rated output power													
	OVERLOAD	Protection	n type : Hic	cup mode,	recovers au	ıtomatically	after fault	condition is	s removed						
		CH1:5.75	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													
ENVIRONMENT	WORKING TEMP.	-10 ~ +60°C (Refer to "Derating Curve")													
	WORKING HUMIDITY	20 ~ 90% RH non-condensing													
	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 & EMC (Note 4)	SAFETY STANDARDS	UL60950-1, TUV BS EN/EN62368-1, EAC TP TC 004 approved													
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC													
	ISOLATION RESISTANCE	I/P-O/P, I	/P-FG, O/P	-FG:100M	Ohms / 500	VDC / 25°C	70% RH								
	EMC EMISSION	Complian	ice to BS E	N/EN55032	(CISPR32	) Class B, E	BS EN/EN6	1000-3-2,-	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 S	SR-332 (Be	lcore); 262	2.6K hrs mi	n. MIL-H	IDBK-217F	(25°C)					
	DIMENSION	199*99*50mm (L*W*H)													
	PACKING	0.93Kg; 20pcs/19.6Kg/1.21CUFT													
NOTE	Ripple & noise are measure     Tolerance : includes set up     The power supply is consid	ecially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.  sured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.  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													

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

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- 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

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

## SPECIFICATION

MODEL		QP-150-3D				QP-150D				I/EN62368-1 TPTC004 IEC62368-1				
MODEL	OUTDUT NUMBER	-		СПЗ	СПЛ	CH1	CHO	CH3	CHA	CH1	CHO	СПЗ	СПА	
ОИТРИТ	OUTPUT NUMBER	CH1	CH2	CH3	CH4		CH2	CH3	CH4		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				
						120mVp-p 150mVp-p 200mVp-p 150mVp-p								
	VOLTAGE ADJ. RANGE	CH1: 4.75		CH2: 3.14	1	CH1: 4.75		CH2: 11.4	1	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	800ms, 50ms/230VAC 1800ms, 50ms/115VAC at full load												
	HOLD UP TIME (Typ.)	24ms/230VAC 24ms/115VAC at full load												
INPUT	VOLTAGE RANGE	90 ~ 264VAC 127 ~ 370VDC												
	FREQUENCY RANGE	47 ~ 63Hz												
	POWER FACTOR (Typ.)	PF>0.95/230VAC PF>0.98/115VAC at full load												
	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												
PROTECTION		105 ~ 150% rated output power												
	OVERLOAD	Protection type: Hiccup mode, recovers automatically after fault condition is removed												
	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 ~ 20.25												
		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")												
ENVIRONMENT	WORKING HUMIDITY	20 ~ 90% RH non-condensing												
	STORAGE TEMP., HUMIDITY				condonein	7								
	TEMP. COEFFICIENT	-20 ~ +85°C , 10 ~ 95% RH non-condensing ±0.03%°C (0~50°C)												
	VIBRATION				60min oool	h alona V N	/ 7 ayas							
	SAFETY STANDARDS	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes  UL60950-1, TUV BS EN/EN62368-1, EAC TP TC 004 approved												
045577.0	WITHSTAND VOLTAGE				C O/P-F0		арргочец							
SAFETY & EMC (Note 4)	ISOLATION RESISTANCE				Ohms / 500'		/ 700/ DU							
	EMC EMISSION				(CISPR32)			1000 2 2 3	EACTRI	C 020				
					,						2.000			
OTHERS	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)												
	DIMENSION	199*99*50mm (L*W*H)												
	PACKING		•	(g/1.21CUF				20 1						
NOTE	All parameters NOT special     Ripple & noise are measure     Tolerance: includes set up     The power supply is consided     a 360mm*360mm metal plate perform these EMC tests, p     The ambient the practice of the power supply is not set of the power supply.	ed at 20MH tolerance, ered a con ate with 1m blease refer erating of 3	Iz of band line regula apponent wh am of thickr to "EMI te 3.5°C/1000	width by us tion and loanich will be ness. The fasting of co m with fanl	ing a 12" to ad regulation installed in inal equipm inponent po ess models	wisted pair- on. to a final e nent must b ower suppl s and of 5°	quipment. And the re-confirment. And the re-confirment. (as a work) (as a work)	ated with a All the EMO med that it railable on vith fan mo	a 0.1uf & 4 C tests are still meets http://www. dels for ope	7uf parallel been exec EMC direc meanwell.c erating altit	euted by mo tives. For o com)	ounting the guidance or	n how to	

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