



## 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(Optional)
- 3 years warranty



## **SPECIFICATION**

MODEL		QP-150-3	A			QP-150-3B				QP-150-3C				
	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-p 100mVp-p 150mVp-p 150mVp-p					
OUTPUT	VOLTAGE ADJ. RANGE	CH1: 4.75	~ 5.5V	CH2: 3.14	- 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, 50	300ms, 50ms/230VAC 800ms, 50ms/115VAC at full load											
	HOLD TIME (Typ.)	24ms/230	VAC 2	24ms/115V	AC at full lo	ad								
	VOLTAGE RANGE	90 ~ 264V	/AC 12	27 ~ 370VD	C									
	FREQUENCY RANGE	47 ~ 63Hz	47 ~ 63Hz											
	POWER FACTOR (Typ.)	PF>0.95/2	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												
	OVER LOAD	105 ~ 150% rated output power												
		Protection type: Hiccup mode, recovers automatically after fault condition is removed												
	OVER VOLET CE	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℃±5℃ (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												
EMC	EMI CONDUCTION & RADIATION	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, c	riteria A				
	MTBF	141.5K hi	s min. M	11L-HDBK-2	217F (25°C	)								
OTHERS	DIMENSION	199*99*50mm (L*W*H)												
	PACKING	0.93Kg; 20pcs/19.6Kg/1.28CUFT												
NOTE	2. Ripple & noise are measure	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.												

- 3. Tolerance: includes set up tolerance, line regulation and load regulation.
- 4. The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.





## 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(Optional)
- 3 years warranty



## **SPECIFICATION**

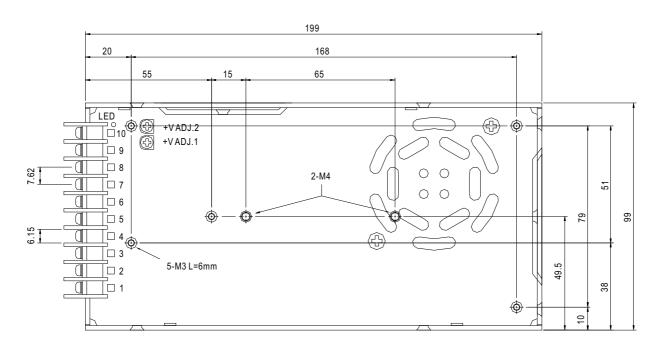
EMC directives.

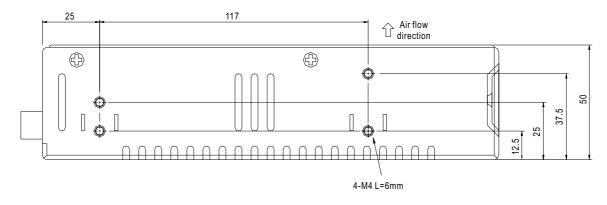
MODEL	QP-150-3	D			QP-150D QP-150F									
	OUTPUT NUMBER	CH1	CH1 CH2 CH3 CH4 CH1 CH2 CH3 CH4 CH1 CH2 CH3 CH									CH4		
	DC VOLTAGE	5V	3.3V	24V	-12V	5V	12V	24V	-12V	5V	15V	24V	-15V	
	RATED CURRENT	10A	10A	2.5A	0.6A	10A	4A	2A	0.6A	10A	3A	2A	0.6A	
	CURRENT RANGE	3 ~ 15A	0 ~ 15A	0.3 ~ 3A	0 ~ 1A	3 ~ 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					
	· · · · ·	100mVp-p 100mVp-p 150mVp-p 150mVp-				120mVp-p 150mVp-p 200mVp-p 150mVp-p			120mVp-p 150mVp-p 200mVp-p 150mVp-p					
OUTPUT	VOLTAGE ADJ. RANGE	CH1: 4.75		CH2: 3.14		CH1: 4.75 ~ 5.5V CH2: 11.4 ~ 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, 50	ms/230VA	C 800	0ms, 50ms/	115VAC at	full load	<b>'</b>	'	'	<b>'</b>			
	HOLD TIME (Typ.)	24ms/230	VAC	24ms/115V	/AC at full lo	oad								
	VOLTAGE RANGE	90 ~ 264V	'AC 12	27 ~ 370VD	C									
	FREQUENCY RANGE	47 ~ 63Hz												
	POWER FACTOR (Typ.)	PF>0.95/230VAC												
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												
	OVER LOAD	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 ~ 20.25V												
PROTECTION	OVER VOLTAGE	Protection type : Shut down o/p voltage, re-power on to recover												
	OVER TEMPERATURE (ORTION)	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-co	ndensing										
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													
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC												
SAFETY &	ISOLATION RESISTANCE				Ohms/500V									
EMC	EMI CONDUCTION & RADIATION	Complian	ce to EN55	022 (CISPI	R22) Class	В								
(Note 4)	HARMONIC CURRENT	Complian	ce to EN61	000-3-2,-3										
	EMS IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204, EN55024, Light industry level, criteria A												
<b>MTBF</b> 141.5K hrs min. MIL-HDBK-217F (25℃)														
OTHERS	DIMENSION	199*99*50mm (L*W*H)												
	PACKING	0.93Kg; 20pcs/19.6Kg/1.28CUFT												
NOTE	<ul><li>2. Ripple &amp; noise are measure</li><li>3. Tolerance : includes set up</li></ul>	ally mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.  red at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.  rolerance, line regulation and load regulation.  dered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets												



# **■** Mechanical Specification

Case No. 916B Unit:mm



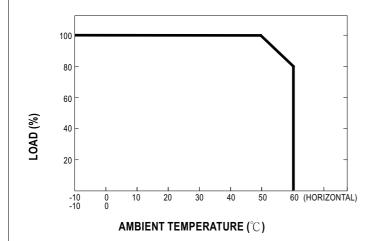


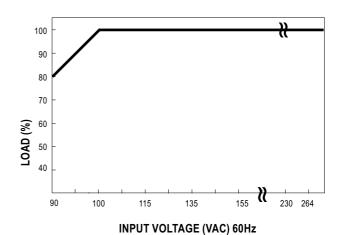
## Terminal Pin No. Assignment:

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

# ■ Derating Curve

# ■ Output Derating VS Input Voltage









QP-150B

#### 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
- Fixed switching frequency at 100KHz(Optional)

QP-150C

• 3 years warranty



## **SPECIFICATION**

MODEL

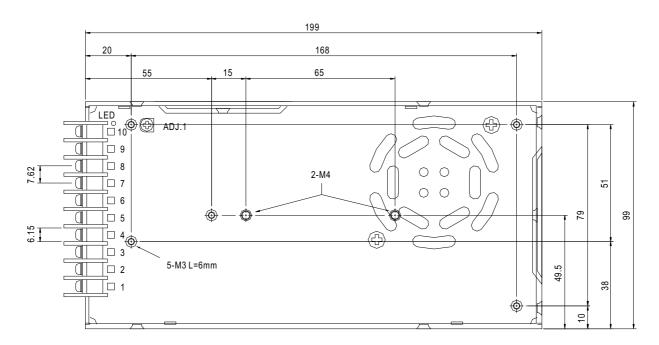
VOLTAGE ADJ. RANGE			· ·				1 '								
NATED CURRENT   15A		OUTPUT NUMBER	CH1	CH2	CH3	CH4	CH1	CH2	CH3	CH4					
CURRENT RANGE   3 - 15A		DC VOLTAGE	5V	12V	-12V	-5V	5V	15V	-15V	-5V					
NATED POWER (max.)   150W   150mVp-p   150		RATED CURRENT	15A	4A	2A	0.6A	15A	3A	2A	0.6A					
NPUTE   NOISE (max.)   Note.2   100mVp.p   150mVp.p   150mVp.p   100mVp.p   100mVp.p   150mVp.p   150mVp.p   100mVp.p   100mVp.p   100mVp.p   150mVp.p   100mVp.p   100mVp.p   100mVp.p   100mVp.p   150mVp.p   100mVp.p   120WVp.p		CURRENT RANGE	3 ~ 15A	0.4 ~ 5A	0.3 ~ 2A	0 ~ 1A	3 ~ 15A	0.4 ~ 4A	0.3 ~ 2A	0 ~ 1A					
VOLTAGE ADJ. RANGE		RATED POWER (max.)	150W		•		153W								
VOLTAGE TOLERANCE   vol. 14.75 - 5.5V	OUTDUT	RIPPLE & NOISE (max.) Note.2	100mVp-p	150mVp-p	150mVp-p	100mVp-p	100mVp-p	150mVp-p	150mVp-p	100mVp-p					
LINE REGULATION	OUIPUI	VOLTAGE ADJ. RANGE	CH1:4.75 ~ 5.5\	I	•		CH1:4.75 ~ 5.5V								
LOAD REGULATION   ±2.0%   ±6.0%   ±6.0%   ±2.0%   ±2.0%   ±6.0%   ±2.0%   ±		VOLTAGE TOLERANCE Note.3	±3.0%	±6.0%	+10,-6%	±5.0%	±3.0%	+6,-10%	±8.0%	±5.0%					
SETUP, RISE TIME		LINE REGULATION	±1.0%	±2.0%	±2.0%	±1.0%	±1.0%	±2.0%	±2.0%	±1.0%					
HOLD TIME (Typ.)   24ms at full load   90 - 264VAC   127 ~ 370VDC   FREQUENCY RANGE   90 - 264VAC   127 ~ 370VDC   FREQUENCY RANGE   47 ~ 63Hz   POWER FACTOR (Typ.)   76%   77%		LOAD REGULATION	±2.0%	±6.0%	±6.0%	±2.0%	±2.0%	±6.0%	±6.0%	±2.0%					
VOLTAGE RANGE   90 ~ 264VAC   127 ~ 370VDC		SETUP, RISE TIME	000ms, 50ms at full load												
FREQUENCY RANGE   47 ~ 63Hz		HOLD TIME (Typ.)	24ms at full load	ms at full load											
POWER FACTOR (Typ.)		VOLTAGE RANGE	90 ~ 264VAC	127 ~ 370VE	OC										
EFFICIENCY (Typ.)   76%   77%		FREQUENCY RANGE													
AC CURRENT (Typ.)   2.5A/115VAC   1.2A/230VAC     INRUSH CURRENT (Typ.)   COLD START ≤ 40A     LEAKAGE CURRENT   <3.5mA / 240VAC     Protection type : Hiccup mode, recovers automatically after fault condition is removed		POWER FACTOR (Typ.)													
INRUSH CURRENT (Typ.) COLD START ≦ 40A  LEAKAGE CURRENT	INPUT	EFFICIENCY (Typ.)	76%												
LEAKAGE CURRENT OVER LOAD  OVER LOAD  OVER VOLTAGE  OVER VOLTAGE  OVER TEMPERATURE(OPTION)  WORKING TEMP.  WORKING TEMP.  WORKING HUMIDITY  20 ~ 90% RH non-condensing  STORAGE TEMP., HUMIDITY  TEMP. COEFFICIENT  VIBRATION  10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes  SAFETY 8  SAFETY 8  SAFETY 8  EMC  (Note 4)  MTBF  MTBF  141.5K hrs min.  MIL-HDBK-217F (25°C)  DIMENSION  199*99*50mm (L*W*H)  Protection type : Shut down o/p voltage, re-power on to recover  95°C ±5°C (TSW1)  Protection type : Shut down o/p voltage, re-power on to recover  95°C ±5°C (TSW1)  Protection type : Shut down o/p voltage, recovers automatically after temperature goes down  10 ~ 460°C (Refer to output load derating curve)  WORKING HUMIDITY  20 ~ 90% RH non-condensing  5TORAGE TEMP., HUMIDITY  20 ~ 85°C, 10 ~ 95% RH  TEMP. COEFFICIENT  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  I/P-FG:0.5KVAC  I/P-FG:		AC CURRENT (Typ.)													
OVER LOAD   105 ~ 135% rated output power   Protection type : Hiccup mode, recovers automatically after fault condition is removed		INRUSH CURRENT (Typ.)													
PROTECTION  OVER VOLTAGE  OVER TEMPERATURE(OPTION)  Protection type : Shut down o/p voltage, re-power on to recover  OVER TEMPERATURE(OPTION)  Protection type : Shut down o/p voltage, re-power on to recover  95°C±5°C (TSW1)  Protection type : Shut down o/p voltage, re-power automatically after temperature goes down  WORKING TEMP.  10 ~ 460°C (Refer to output load derating curve)  WORKING HUMIDITY  20 ~ 90% RH non-condensing  STORAGE TEMP, HUMIDITY  20 ~ 485°C, 10 ~ 95% RH  TEMP. COEFFICIENT  10 ~ 500Hz, 26 Idmin./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  ISOLATION RESISTANCE  I/P-O/P;3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC  ISOLATION RESISTANCE  I/P-O/P, I/P-FG, O/P-FG:100M Ohms/500VDC  EMI CONDUCTION & RADIATION  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°C)  DIMENSION  199*99*50mm (L*W*H)  PACKING  1.1Kg; 20pcs/22Kg/1.28CUFT		LEAKAGE CURRENT	<3.5mA / 240VAC												
PROTECTION  OVER VOLTAGE  OVER TEMPERATURE(OPTION)  Protection type: Shut down o/p voltage, re-power on to recover  OVER TEMPERATURE(OPTION)  WORKING TEMP.  ### VORKING HUMIDITY  ### 20 ~ 90% RH non-condensing  STORAGE TEMP., HUMIDITY  ### 20 ~ 85°C, 10 ~ 95% RH  ### TEMP. COEFFICIENT  ### 10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes  ### SAFETY STANDARDS  ### UL60950-1, TUV EN60950-1 Approved  ### WITHSTAND VOLTAGE  ### IV-O/P.3KVAC //P-FG:1.5KVAC O/P-FG:0.5KVAC  ### SOLATION RESISTANCE  ### IKONDUCTION & RADIATION  ### Compliance to EN55022 (CISPR22) Class B  ### 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°C)  ### DIMENSION  ### 199*99*50mm (L*W*H)  ### PACKING  ### 1.1Kg; 20pcs/22Kg/1.28CUFT		OVER LOAD	105 ~ 135% rated output power												
Protection type : Shut down o/p voltage, re-power on to recover    OVER TEMPERATURE(OPTION)			Protection type: Hiccup mode, recovers automatically after fault condition is removed												
OVER TEMPERATURE(OPTION)  Protection type: Shut down o/p voltage, re-power on to recover  95°C±5°C (TSW1)  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  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  WITHSTAND VOLTAGE  I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC  ISOLATION RESISTANCE  EMC (SODUCTION & RADIATION)  EMC (SODUCTION & RADIATION)  Compliance to EN55022 (CISPR22) Class B  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°C)  DIMENSION  199*99*50mm (L*W*H)  PACKING  1.1Kg; 20pcs/22Kg/1.28CUFT		OVER VOLTAGE	CH1:5.75 ~ 6.75V												
WORKING TEMP.   -10 ~ +60°C (Refer to output load derating curve)	PROTECTION		Protection type : Shut down o/p voltage, re-power on to recover												
WORKING TEMP.  -10 ~ +60°C (Refer to output load derating curve)  WORKING HUMIDITY  20 ~ 90% RH non-condensing  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  EMC  (Note 4)  HARMONIC CURRENT  Compliance to EN55022 (CISPR22) Class B  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°C)  DIMENSION  199*99*50mm (L*W*H)  PACKING  1.1Kg; 20pcs/22Kg/1.28CUFT		OVER TEMPERATURE(OPTION)	95℃ ±5℃ (TSW1)												
WORKING HUMIDITY   20 ~ 90% RH non-condensing			Protection type : Shut down o/p voltage, recovers automatically after temperature goes down												
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     SOLATION RESISTANCE   I/P-O/P, I/P-FG, 0/P-FG:100M Ohms/500VDC     EMC (Note 4)   HARMONIC CURRENT   Compliance to EN55022 (CISPR22) Class B     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°C)     DIMENSION   199*99*50mm (L*W*H)     PACKING   1.1Kg; 20pcs/22Kg/1.28CUFT   2.1Kg/1.2Kg/1.28CUFT   2.1Kg/1.2Kg/1.2Kg/1.2Kg/1.2Kg/1.2Kg/1.2Kg/1.2Kg/1.2Kg/1.2Kg/1.2Kg/1.2Kg/1.2Kg/1.2Kg/1.2Kg/1.2Kg/1.2Kg/1.2Kg/1.		WORKING TEMP.	-10 ~ +60°C (R												
TEMP. COEFFICIENT		WORKING HUMIDITY	20 ~ 90% RH non-condensing												
VIBRATION	ENVIRONMENT	STORAGE TEMP., HUMIDITY	-20 ~ +85°C, 10 ~ 95% RH												
SAFETY STANDARDS		TEMP. COEFFICIENT	±0.03%/°C (0~50°C)												
WITHSTAND VOLTAGE		VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes												
ISOLATION RESISTANCE		SAFETY STANDARDS	UL60950-1, TUV EN60950-1 Approved												
EMC (Note 4)  EMI CONDUCTION & RADIATION Compliance to EN55022 (CISPR22) Class B  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°C)  DIMENSION 199*99*50mm (L*W*H)  PACKING 1.1Kg; 20pcs/22Kg/1.28CUFT		WITHSTAND VOLTAGE	I/P-O/P:3KVAC	I/P-FG:1.5K\	/AC O/P-FG:0	).5KVAC									
HARMONIC CURRENT   Compliance to EN61000-3-2,-3	SAFETY &	ISOLATION RESISTANCE	I/P-O/P, I/P-FG	, O/P-FG:100M	Ohms/500VDC										
EMS IMMUNITY   Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204, EN55024, Light industry level, criteria A	EMC	<b>EMI CONDUCTION &amp; RADIATION</b>	Compliance to EN55022 (CISPR22) Class B												
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 4)	HARMONIC CURRENT	Compliance to EN61000-3-2,-3												
DIMENSION         199*99*50mm (L*W*H)           PACKING         1.1Kg; 20pcs/22Kg/1.28CUFT		EMS IMMUNITY	Compliance to	EN61000-4-2,3,	4,5,6,8,11; ENV	50204, EN55024	, Light industry le	vel, criteria A							
PACKING 1.1Kg; 20pcs/22Kg/1.28CUFT		MTBF	141.5K hrs min	. MIL-HDBK-	217F (25°ℂ)										
4 All	OTHERS	DIMENSION	199*99*50mm	(L*W*H)											
NOTE 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.		PACKING	1.1Kg; 20pcs/22Kg/1.28CUFT												
2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.	NOTE														

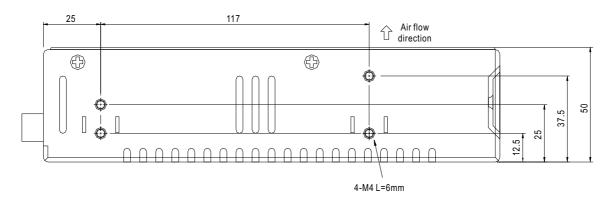
- 3. Tolerance: includes set up tolerance, line regulation and load regulation.
- 4. The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.



# **■** Mechanical Specification

Case No. 916B Unit:mm





#### Terminal Pin No. Assignment:

Pin No.	Assignment	Pin No.	Assignment	Pin No.	Assignment		
1	AC/L	4	DC OUTPUT V4	8,9	DC OUTPUT COM		
2	AC/N	5	DC OUTPUT V3	10	DC OUTPUT V2		
3	FG ±	6.7	DC OUTPUT V1				

# ■ Derating Curve

# 100 80 60 40 20 -10 0 10 20 30 40 50 60 (HORIZONTAL)

AMBIENT TEMPERATURE (°C)

# ■ Output Derating VS Input Voltage

