

#### Dimension

L \* W \* H 250 \* 127 \* 41 (1U) mm

250 \* 127 \* 41 (1U) mm 9.84 \* 5 \* 1.61(1U) inch























### Features

- Universal AC input / Full range
- · Built-in active PFC function
- High efficiency up to 92%
- · Forced air cooling by built-in DC fan
- Output voltage and constant current level programmable
- Built-in remote ON-OFF control / remote sense / auxiliary power / DC OK signal
- Protections: Short circuit / Overload / Over voltage / Over temperature
- · Optional conformal coating
- 5 years warranty

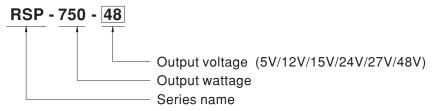
## Applications

- · Factory control or automation apparatus
- · Test and measurement instrument
- · Laser related machine
- Burn-in facility
- · RF application

## Description

RSP-750 is a 750W single output enclosed type AC/DC power supply. This series operates for 90~264VAC input voltage and offers the models with the DC output mostly demanded from the industry. Each model is cooled by the built-in fan with fan speed control, working for the temperature up to 70°C. Moreover, RSP-750 provides vast design flexibility by equipping various built-in functions such as the output programming, remote ON-OFF control, auxiliary power, etc.

# ■ Model Encoding / Order Information





#### **SPECIFICATION**

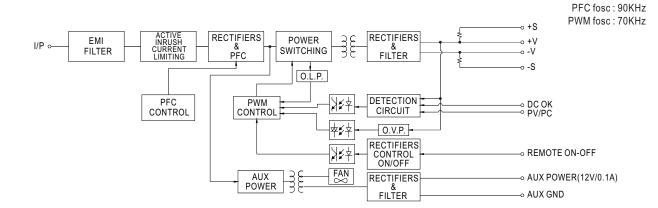
		RSP-750-5	RSP-750-12	RSP-750-15	RSP-750-24	RSP-750-27	RSP-750-48			
	DC VOLTAGE	5V	12V	15V	24V	27V	48V			
ОИТРИТ	RATED CURRENT	100A	62.5A	50A	31.3A	27.8A	15.7A			
	CURRENT RANGE	0 ~ 100A	0 ~ 62.5A	0 ~ 50A	0 ~ 31.3A	0 ~ 27.8A	0 ~ 15.7A			
	RATED POWER	500W	750W	750W	751.2W	750.6W	753.6W			
	RIPPLE & NOISE (max.) Note.2	150mVp-p	150mVp-p	150mVp-p	150mVp-p	150mVp-p	150mVp-p			
	VOLTAGE ADJ. RANGE	4.75 ~ 5.5V	10 ~ 13.5V	13.5 ~ 16.5V	20 ~ 26.4V	24 ~ 30V	43 ~ 55V			
	VOLTAGE TOLERANCE Note,3	±2.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%			
	LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%			
	LOAD REGULATION	±2.0%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%			
	SETUP, RISE TIME	1000ms, 50ms at full load								
	HOLD UP TIME (Typ.)	16ms/230VAC 16ms/115VAC at full load								
	FREQUENCY RANGE	4 90 ~ 264VAC 127 ~ 370VDC 47 ~ 63Hz								
	POWER FACTOR (Typ.)	0.97/230VAC	0.98/115VAC at full	load						
NPUT		82%	87%	89%	00 50/	90.5%	92%			
NPUI	EFFICIENCY (Typ.)				90.5%		92%			
	AC CURRENT (Typ.)	5V : 5.6A/115VAC	2.8A/230VAC	12V~48V : 8.2A/1	15VAC 3.9A/230	VAC				
	INRUSH CURRENT (Typ.)		40A/230VAC							
	LEAKAGE CURRENT	<2.0mA / 240VAC								
	OVERLOAD	105 ~ 125% rated of	· ·							
	OTENEOND			ng, recovers automation						
PROTECTION	OVER VOLTAGE (OVP)	5.75 ~ 6.75V	13.8 ~ 16.8V	17 ~ 20.5V	27.6 ~ 32.4V	31 ~ 36.5V	56.6 ~ 66.2V			
	OVER VOLINGE (OVI )			, re-power on to recov						
	OVER TEMPERATURE		0 ,	atically after temperatu						
	OUTPUT VOLTAGE PROGRAMMABLE(PV)	,		able to 40 ~ 110% of n	<u> </u>					
	CONSTANT CURRENT LEVEL PROGRAMMABLE(PC)	Adjustment of con	stant current level i	s allowable to 40 ~ 11	0% of rated current. F	Please refer to the Fur	nction Manual.			
UNCTION	AUXILIARY POWER	12V @ 0.1A; tolerance: ±10%								
	REMOTE ON-OFF CONTROL	Power on : short between Remote ON-OFF(pin13) & 12V-AUX(pin14) on CN50 Power off : open between Remote ON-OFF(pin13) & 12-AUX(pin14) on CN50								
	DC OK SIGNAL	The TTL signal out	The TTL signal out, power supply turn on = 0 ~ 1V; power supply turn off = 3.3 ~ 5.6V							
		-30 ~ +70°C (Refer to "Derating Curve")								
	WORKING TEMP.	-30 ~ +70°C (Refer		<u> </u>	pry turn on = 3.3 ~ 5.0	V				
	WORKING TEMP. WORKING HUMIDITY	-30 ~ +70°C (Reference 20 ~ 90% RH non-	to "Derating Curve"	<u> </u>	pry turn on – 3.3 ~ 5.6	V				
ENVIRONMENT	WORKING HUMIDITY	20 ~ 90% RH non-0	to "Derating Curve"	)	pry turn on – 3.3 ~ 5.6	V				
ENVIRONMENT	WORKING HUMIDITY	20 ~ 90% RH non-0	to "Derating Curve" condensing 95% RH non-conden	)	pry turn on = 3.3 ~ 5.6	V				
ENVIRONMENT	WORKING HUMIDITY STORAGE TEMP., HUMIDITY	20 ~ 90% RH non-( -40 ~ +85°C, 10 ~ 9 ±0.03%/°C (0 ~ 5	to "Derating Curve" condensing 95% RH non-conden 0°C)	)		V				
NVIRONMENT	WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT	20 ~ 90% RH non-c -40 ~ +85°C, 10 ~ 9 ±0.03%/°C (0 ~ 5 10 ~ 500Hz, 2G 10	to "Derating Curve" condensing 95% RH non-conden 0°C) min./1cycle, 60min.	sing	S		4336-1 approved			
ENVIRONMENT	WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION	20 ~ 90% RH non-c -40 ~ +85°C, 10 ~ 9 ±0.03%°C (0 ~ 5 10 ~ 500Hz, 2G 10 UL62368-1, CSA	to "Derating Curve" condensing 95% RH non-conden 0°C) min./1cycle, 60min.	sing each along X, Y, Z axe TUV EN62368-1, EA(	S		4336-1 approved			
ENVIRONMENT	WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE	20 ~ 90% RH non- -40 ~ +85°C, 10 ~ 9 ± 0.03%/°C (0 ~ 5 10 ~ 500Hz, 2G 10 UL62368-1, CSA I/P-O/P:3KVAC	to "Derating Curve" condensing 95% RH non-conden 0°C) min./1cycle, 60min. C22.2 No. 62368-1, //P-FG:2KVAC O/F	sing each along X, Y, Z axe TUV EN62368-1, EAG P-FG:0.5KVAC	S C TP TC 004, CCC GE		4336-1 approved			
ENVIRONMENT	WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS	20 ~ 90% RH non- -40 ~ +85°C, 10 ~ 9 ± 0.03%/°C (0 ~ 5 10 ~ 500Hz, 2G 10 UL62368-1, CSA I/P-O/P:3KVAC	to "Derating Curve" condensing 95% RH non-conden 0°C) min./1cycle, 60min. C22.2 No. 62368-1, //P-FG:2KVAC O/F	sing each along X, Y, Z axe TUV EN62368-1, EA(	S C TP TC 004, CCC GE					
ENVIRONMENT	WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE	20 ~ 90% RH non- -40 ~ +85°C, 10 ~ 9 ± 0.03%/°C (0 ~ 5 10 ~ 500Hz, 2G 10 UL62368-1, CSA (1/P-O/P:3KVAC 1/P-O/P, 1/P-FG, O/Parameter)	to "Derating Curve" condensing 95% RH non-conden 0°C) min./1cycle, 60min. C22.2 No. 62368-1, //P-FG:2KVAC O/F	sing  each along X, Y, Z axe: TUV EN62368-1, EA0  P-FG:0.5KVAC  500VDC / 25°C / 70% F  Standard	S C TP TC 004, CCC GE	34943.1, BSMI CNS1-				
ENVIRONMENT	WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE	20 ~ 90% RH non-0 -40 ~ +85°C, 10 ~ 9 ±0.03%/°C (0 ~ 5 10 ~ 500Hz, 2G 10 UL62368-1, CSA 0 I/P-O/P;3KVAC I/P-O/P, I/P-FG, O/ Parameter Conducted	to "Derating Curve" condensing 95% RH non-conden 0°C) min./1cycle, 60min. C22.2 No. 62368-1, //P-FG:2KVAC O/F	sing  each along X, Y, Z axe: TUV EN62368-1, EAC  P-FG:0.5KVAC  500VDC / 25°C/ 70% F  Standard  EN55032 (CISPF	S C TP TC 004, CCC GE RH	Test Level / Not				
ENVIRONMENT	WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE	20~90% RH non-0 -40~+85°C, 10~9 ±0.03%/°C (0~5 10~500Hz, 2G 10 UL62368-1, CSA 0 I/P-O/P; I/P-FG, O/ Parameter Conducted Radiated	to "Derating Curve" condensing 95% RH non-conden 0°C) min./1cycle, 60min. C22.2 No. 62368-1, //P-FG:2KVAC O/F P-FG:100M Ohms / 5	sing  each along X, Y, Z axe: TUV EN62368-1, EAC  P-FG:0.5KVAC  500VDC / 25°C/ 70% F  Standard  EN55032 (CISPR EN55032 (CISPR	S C TP TC 004, CCC GE RH	34943.1, BSMI CNS1-				
	WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE	$20 \sim 90\%$ RH non- - $40 \sim +85^{\circ}\text{C}$ , $10 \sim 9$ $\pm 0.03\%/^{\circ}\text{C}$ ( $0 \sim 5$ $10 \sim 500$ Hz, $2G$ 10 UL62368-1, CSA 0 I/P-O/P:3KVAC I/P-O/P, I/P-FG, O/Parameter Conducted Radiated	to "Derating Curve" condensing 95% RH non-conden 0°C) min./1cycle, 60min. C22.2 No. 62368-1, //P-FG:2KVAC O/F P-FG:100M Ohms / 5	sing  each along X, Y, Z axe TUV EN62368-1, EAC P-FG:0.5KVAC 500VDC / 25°C/ 70% F  Standard  EN55032 (CISPR EN55032 (CISPR EN61000-3-2	S C TP TC 004, CCC GE RH	Test Level / Note Class B Class B				
SAFETY &	WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE	$20 \sim 90\%$ RH non- - $40 \sim +85^{\circ}\text{C}$ , $10 \sim 9$ $\pm 0.03\%'^{\circ}\text{C}$ (0 $\sim 5$ $10 \sim 500\text{Hz}$ , $2G$ 10 UL62368-1, CSA 0 I/P-O/P:3KVAC I/P-O/P, I/P-FG, O/Parameter Conducted Radiated Harmonic Current Voltage Flicker	to "Derating Curve" condensing 95% RH non-conden 0°C) min./1cycle, 60min. C22.2 No. 62368-1, //P-FG:2KVAC O/F P-FG:100M Ohms /	sing  each along X, Y, Z axe TUV EN62368-1, EAC P-FG:0.5KVAC 500VDC / 25°C / 70% F  Standard  EN55032 (CISPR  EN55032 (CISPR  EN61000-3-2  EN61000-3-3	s C TP TC 004, CCC GE RH (32)	Test Level / Note Class B Class B				
SAFETY &	WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE	$20 \sim 90\%$ RH non- - $40 \sim +85^{\circ}\text{C}$ , $10 \sim 9$ $\pm 0.03\%'^{\circ}\text{C}$ (0 $\sim 5$ $10 \sim 500\text{Hz}$ , $2G$ 10 UL62368-1, CSA(1/P-O/P:3KVAC 1/P-O/P:3KVAC 1/P-O/P, 1/P-FG, O/Parameter Conducted Radiated Harmonic Current Voltage Flicker EN55024, EN612t	to "Derating Curve" condensing 95% RH non-conden 0°C) min./1cycle, 60min. C22.2 No. 62368-1, //P-FG:2KVAC O/F P-FG:100M Ohms /	sing  each along X, Y, Z axe TUV EN62368-1, EA0  P-FG:0.5KVAC  500VDC / 25°C / 70% F  Standard  EN55032 (CISPR  EN55032 (CISPR  EN61000-3-2  EN61000-3-3  CCC GB17625.1,GB/I	s C TP TC 004, CCC GE RH (32)	Test Level / Note Class B Class B	e			
SAFETY &	WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE	20 ~ 90% RH non- -40 ~ +85°C, 10 ~ 9 ±0.03%/°C (0 ~ 5 10 ~ 500Hz, 2G 10 UL62368-1, CSA( I/P-O/P, I/P-FG, O/ Parameter Conducted Radiated Harmonic Current Voltage Flicker EN55024, EN6120	to "Derating Curve" condensing 95% RH non-conden 0°C) min./1cycle, 60min. C22.2 No. 62368-1, //P-FG:2KVAC O/F P-FG:100M Ohms /	sing  each along X, Y, Z axe  TUV EN62368-1, EA0  P-FG:0.5KVAC  500VDC / 25°C / 70% F  Standard  EN55032 (CISPR  EN55032 (CISPR  EN61000-3-2  EN61000-3-3  CCC GB17625.1,GB/T  Standard	s C TP TC 004, CCC GE RH (32)	Test Level / Note Class B Class B	e e			
SAFETY &	WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE	20 ~ 90% RH non- -40 ~ +85°C, 10 ~ 9 ±0.03%/°C (0 ~ 5 10 ~ 500Hz, 2G 10 UL62368-1, CSA (I/P-O/P:3KVAC I/P-O/P:3KVAC I/P-O/P, I/P-FG, O/Parameter Conducted Radiated Harmonic Current Voltage Flicker EN55024, EN6120 Parameter ESD	to "Derating Curve" condensing 95% RH non-conden 0°C) min./1cycle, 60min. C22.2 No. 62368-1, //P-FG:2KVAC O/F P-FG:100M Ohms /	sing  each along X, Y, Z axe  TUV EN62368-1, EA0  P-FG:0.5KVAC  500VDC / 25°C / 70% F  Standard  EN55032 (CISPR  EN61000-3-2  EN61000-3-3  CCC GB17625.1, GB/T  Standard  EN61000-4-2	s C TP TC 004, CCC GE RH (32)	Test Level / Note Class B Class B	e			
SAFETY &	WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE	20 ~ 90% RH non- -40 ~ +85°C, 10 ~ 9 ± 0.03%/°C (0 ~ 5 10 ~ 500Hz, 2G 10 UL62368-1, CSA (I/P-O/P:3KVAC I/P-O/P:3KVAC I/P-O/P, I/P-FG, O/P) (P-FG,	to "Derating Curve" condensing 95% RH non-conden 0°C) min./1cycle, 60min. C22.2 No. 62368-1, //P-FG:2KVAC O/F P-FG:100M Ohms /	sing  each along X, Y, Z axe TUV EN62368-1, EAG P-FG:0.5KVAC 500VDC / 25°C / 70% F  Standard EN55032 (CISPR EN61000-3-2 EN61000-3-3 CCC GB17625.1,GB/T Standard EN61000-4-2 EN61000-4-3	s C TP TC 004, CCC GE RH (32)	Test Level / Note Class B Class B Class B Test Level / Note Class B Level 3, 8KV air Level 3	e e			
SAFETY &	WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE	20 ~ 90% RH non40 ~ +85°C, 10 ~ 9 ±0.03%/°C (0 ~ 5 10 ~ 500Hz, 2G 10 UL62368-1, CSA (I/P-O/P:3KVAC I/P-O/P; J/P-FG, O/Parameter Conducted Radiated Harmonic Current Voltage Flicker EN55024, EN6120 Parameter ESD Radiated EFT / Burst	to "Derating Curve" condensing 95% RH non-conden 0°C) min./1cycle, 60min. C22.2 No. 62368-1, //P-FG:2KVAC O/F P-FG:100M Ohms /	sing  each along X, Y, Z axe.  TUV EN62368-1, EA6  P-FG:0.5KVAC  500VDC / 25°C / 70% F  Standard  EN55032 (CISPF  EN61000-3-2  EN61000-3-3  CCC GB17625.1,GB/T  Standard  EN61000-4-2  EN61000-4-3  EN61000-4-4	s C TP TC 004, CCC GE RH (32)	Test Level / Note Class B Class B 38 Test Level / Note Level 3, 8KV air Level 3 Level 3	e e ; Level 2, 4KV contact			
SAFETY &	WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION	20 ~ 90% RH non40 ~ +85°C, 10 ~ 9 ±0.03%/°C (0 ~ 5 10 ~ 500Hz, 2G 10 UL62368-1, CSA ( I/P-O/P:3KVAC I/P-O/P; I/P-FG, O/ Parameter Conducted Radiated Harmonic Current Voltage Flicker EN55024, EN6120 Parameter ESD Radiated EFT / Burst Surge	to "Derating Curve" condensing 95% RH non-conden 0°C) min./1cycle, 60min. C22.2 No. 62368-1, //P-FG:2KVAC O/F P-FG:100M Ohms /	sing  each along X, Y, Z axe.  TUV EN62368-1, EAC  P-FG:0.5KVAC  500VDC / 25°C / 70% F  Standard  EN55032 (CISPR  EN61000-3-2  EN61000-3-3  CCC GB17625.1,GB/T  Standard  EN61000-4-2  EN61000-4-3  EN61000-4-4  EN61000-4-5	s C TP TC 004, CCC GE RH (32)	Test Level / Note Class B Class B 38 Test Level / Note Level 3, 8KV air Level 3 Level 3 Level 4, 4KV/Line-tevel 4, 4KV/Line-tevel 5	e e ; Level 2, 4KV contact			
SAFETY &	WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION	20 ~ 90% RH non40 ~ +85°C, 10 ~ 9 ±0.03%/°C (0 ~ 5 10 ~ 500Hz, 2G 10 UL62368-1, CSA ( I/P-O/P:3KVAC I/P-O/P; I/P-FG, O/ Parameter Conducted Radiated Harmonic Current Voltage Flicker EN55024, EN6120 Parameter ESD Radiated EFT / Burst Surge Conducted	to "Derating Curve" condensing 95% RH non-conden 0°C) min./1cycle, 60min. C22.2 No. 62368-1, //P-FG:2KVAC O/F P-FG:100M Ohms /	sing  each along X, Y, Z axe.  TUV EN62368-1, EAC  P-FG: 0.5KVAC  500VDC / 25°C / 70% F  Standard  EN55032 (CISPF  EN61000-3-2  EN61000-3-3  CCC GB17625.1, GB/T  Standard  EN61000-4-2  EN61000-4-3  EN61000-4-5  EN61000-4-6	s C TP TC 004, CCC GE RH (32)	Test Level / Note Class B Class B Class B Level 3, 8KV air Level 3 Level 3 Level 4, 4KV/Line-E Level 3	e e ; Level 2, 4KV contact			
SAFETY & EMC Note 7)	WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION	20 ~ 90% RH non40 ~ +85°C, 10 ~ 9 ±0.03%/°C (0 ~ 5 10 ~ 500Hz, 2G 10 UL62368-1, CSA ( I/P-O/P:3KVAC I/P-O/P; I/P-FG, O/ Parameter Conducted Radiated Harmonic Current Voltage Flicker EN55024, EN6120 Parameter ESD Radiated EFT / Burst Surge	to "Derating Curve" condensing 95% RH non-conden 0°C) min./1cycle, 60min. C22.2 No. 62368-1, //P-FG:2KVAC O/F P-FG:100M Ohms /	sing  each along X, Y, Z axe.  TUV EN62368-1, EAC  P-FG:0.5KVAC  500VDC / 25°C / 70% F  Standard  EN55032 (CISPR  EN61000-3-2  EN61000-3-3  CCC GB17625.1,GB/T  Standard  EN61000-4-2  EN61000-4-3  EN61000-4-4  EN61000-4-5	s C TP TC 004, CCC GE RH (32)	Test Level / Note Class B Class B 38 Test Level / Note Level 3, 8KV air Level 3 Level 3 Level 4, 4KV/Line-6 Level 3 Level 4	e ; Level 2, 4KV contact Earth ; Level 3, 2KV/Line-L			
SAFETY &	WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION	20 ~ 90% RH non40 ~ +85°C, 10 ~ 9 ±0.03%/°C (0 ~ 5 10 ~ 500Hz, 2G 10 UL62368-1, CSA ( I/P-O/P:3KVAC I/P-O/P; I/P-FG, O/ Parameter Conducted Radiated Harmonic Current Voltage Flicker EN55024, EN6120 Parameter ESD Radiated EFT / Burst Surge Conducted	to "Derating Curve" condensing 95% RH non-conden 0°C) min./1cycle, 60min. C22.2 No. 62368-1, //P-FG:2KVAC O/F P-FG:100M Ohms / 9	sing  each along X, Y, Z axe.  TUV EN62368-1, EAC  P-FG: 0.5KVAC  500VDC / 25°C / 70% F  Standard  EN55032 (CISPF  EN61000-3-2  EN61000-3-3  CCC GB17625.1, GB/T  Standard  EN61000-4-2  EN61000-4-3  EN61000-4-5  EN61000-4-6	s C TP TC 004, CCC GE RH (32)	Test Level / Note Class B Class B 38 Test Level / Note Level 3, 8KV air Level 3 Level 3 Level 4, 4KV/Line-6 Level 3 Level 4	e ; Level 2, 4KV contact Earth ; Level 3, 2KV/Line-L			
SAFETY &	WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION	20 ~ 90% RH non40 ~ +85°C, 10 ~ 9 ±0.03%/°C (0 ~ 5 10 ~ 500Hz, 2G 10 UL62368-1, CSA( I/P-O/P:3KVAC I/P-O/P, I/P-FG, O/ Parameter Conducted Radiated Harmonic Current Voltage Flicker EN55024, EN6120 Parameter ESD Radiated EFT / Burst Surge Conducted Magnetic Field	to "Derating Curve" condensing 95% RH non-conden 0°C) min./1cycle, 60min. C22.2 No. 62368-1, //P-FG:2KVAC O/FP-FG:100M Ohms / 504-3, EN61000-6-2, onterruptions	sing  each along X, Y, Z axe: TUV EN62368-1, EA6  P-FG:0.5KVAC  500VDC / 25°C / 70% F  Standard  EN55032 (CISPR EN61000-3-2 EN61000-3-3  CCC GB17625.1, GB/T  Standard  EN61000-4-2 EN61000-4-3 EN61000-4-3 EN61000-4-5 EN61000-4-6 EN61000-4-8	S C TP TC 004, CCC GE RH (32) (32) (9254, BSMI CNS134)	Test Level / Note Class B Class B 38 Test Level / Note Level 3, 8KV air Level 3 Level 3 Level 4, 4KV/Line-t Level 3 Level 4 >95% dip 0.5 per >95% interruptio	e ; Level 2, 4KV contact Earth ; Level 3, 2KV/Line-L			
SAFETY &	WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION	20 ~ 90% RH non40 ~ +85°C, 10 ~ 9 ±0.03%/°C (0 ~ 5 10 ~ 500Hz, 2G 10 UL62368-1, CSA/ I/P-O/P:3KVAC I/P-O/P:3KVAC I/P-O/P, I/P-FG, O/ Parameter Conducted Radiated Harmonic Current Voltage Flicker EN55024, EN6120 Parameter ESD Radiated EFT / Burst Surge Conducted Magnetic Field Voltage Dips and I	rto "Derating Curve" condensing 95% RH non-conden 0°C) min./1cycle, 60min. C22.2 No. 62368-1, //P-FG:2KVAC O/F P-FG:100M Ohms / 9 904-3, EN61000-6-2, onterruptions Telcordia SR-332 (E	sing  each along X, Y, Z axe: TUV EN62368-1, EAG P-FG:0.5KVAC  500VDC / 25°C / 70% F  Standard  EN55032 (CISPR  EN61000-3-2  EN61000-3-3  CCC GB17625.1,GB/T  Standard  EN61000-4-2  EN61000-4-3  EN61000-4-5  EN61000-4-6  EN61000-4-8  EN61000-4-8	S C TP TC 004, CCC GE RH (32) (32) (9254, BSMI CNS134)	Test Level / Note Class B Class B 38 Test Level / Note Level 3, 8KV air Level 3 Level 3 Level 4, 4KV/Line-t Level 3 Level 4 >95% dip 0.5 per >95% interruptio	e ; Level 2, 4KV contact Earth ; Level 3, 2KV/Line-L			

- Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 uf & 47 uf parallel capacitor.
   Tolerance: includes set up tolerance, line regulation and load regulation.
   Derating may be needed under low input voltages. Please check the derating curve for more details.
   There is high possibility to trigger the floating over voltage protection when PV voltage is trimmed from a high voltage level to a lower voltage level at light load or no load condition. It is suggested that turn off the power supply and set PV voltage to the lowest level, then adjust output voltage to a desired value.
- 6. Strongly recommended that external output capacitance should not exceed 5000uF. (Only for: RSP-750-5)
- 7. 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 on a 720mm\*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)

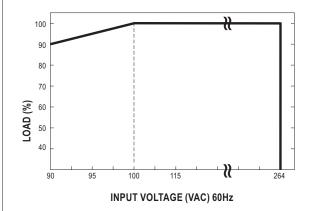
  8. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft).



## ■ Block Diagram

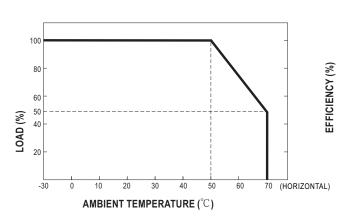


### ■ Static Characteristics

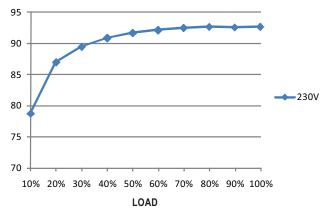


INPUT MODEL	5V	12V	15V
100~264VAC	500W	750W	750W
	100A	62.5A	50A
90VAC	450W 90A	675W 56.25A	675W 45A
MODEL			
INPUT	24V	27V	48V
100~264VAC	751.2W	750.6W	753.6W
100°204VAC	0404	27.8A	15.7A
	31.3A	21.0A	15.7A
90VAC	676.08W	675.54W	678.24W

## ■ Derating Curve



## ■ Efficiency vs Load (48V Model)



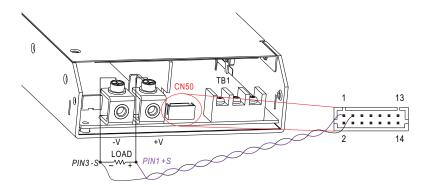
※ The curve above is measured at 230VAC.



#### ■ Function Manual

#### 1.Remote Sense

The remote sensing compensates voltage drop on the load wiring up to 0.5V.



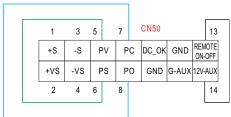
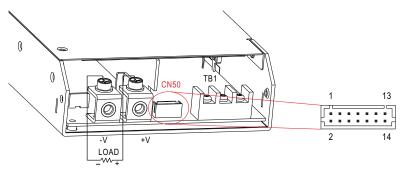


Fig 1.1

- ① The +S signal should be connected to the positive terminal of the load whereas -S signal to the negative terminal.
- © By factory default, on CN50, Remote ON-OFF (pin13) and 12V-AUX (pin14), PV(pin5) and PS (pin6), and PC (pin7) and PO (pin8, respectively, are shorted when shipped. The power supply will have no output if the shorting connector is not assembled unless certain functin needs to be activated.

#### 2.Remote ON-OFF

※ The power supply can be turned ON/OFF by using the "Remote ON-OFF" function.



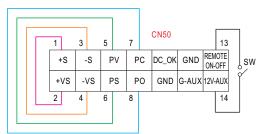


Fig 2.1

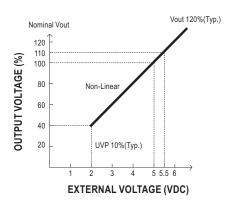
Between Remote ON-OFF(pin13) and 12V-AUX(pin14)	Power Supply Status
SW close (Short)	ON
SW open (Open)	OFF

When multiple power supplies need to turn ON/OFF simultaneously by Remote ON-OFF control, -S & -V on CN50, as well as +S & +V, on each power supply should be connected.



## 3. Output Voltage Programming (or, PV / remote voltage programming / remote adjust / margin programming / dynamic voltage trim)

※ In addition to the adjustment via the built-in potentiometer, the output voltage can be trimmed to 40∼110% of the nominal voltage by applying EXTERNAL VOLTAGE.



External Voltage (2~5.5VDC) CN50 13 3 5 REMOTE ΡV PC DC\_OK GND +S -S +VS -VS PS РΟ GND G-AUX 12V-AUX 2 8 14

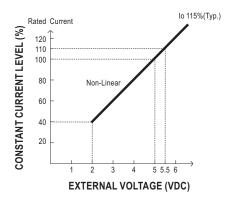
 If EXTERNAL VOLTAGE (VDC) <0.5V, the power supply may enter under voltage protection; it needs to be restarted to work.

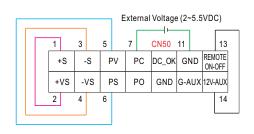
Fig 3.1

\*\* Caution: By factory default, the Output Voltage Programming is not activated, and PV (pin5) and PS(pin6) are shorted by connector. Whenever this function is not needed to activate, as assumed in other sections' diagrams, please keep PV (pin5) and PS(pin6) shorted; other wise, the power supply will have no output.

#### 4. Constant Current Level Programming (or, PC / remote current programming / dynamic current trim)

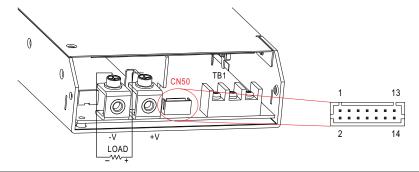
※ The constant current level can be trimmed to 40~110% of the rated current by applying EXTERNAL VOLTAGE.





Fia 4.1

X Caution: By factory default, the Output Current Programming is not activated, and PC(pin7) and PO(pin8) are shorted by connector. Whenever this function is not needed to activate, as assumed in other sections' diagrams, please keep PC(pin7) and PO(pin8) shorted; otherwise, the power supply will have no output.

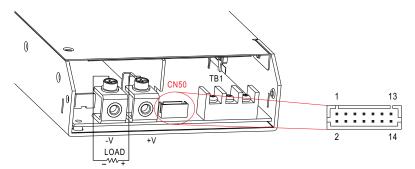




## 5.DC\_OK signal

- \* "DC\_OK" is an open collector signal. It indicates the output status of the power supply. It can operate in two ways: One is sinking current from external TTL signal; the other is sending out a TTL voltage signal.
- © Sinking current from external TTL signal: The maximum sink current is 10mA and the maximum external voltage is 5.6V.
- O Sending out TTL voltage signal :

Between DC- OK(pin9) and GND(pin10&11)	Output Status
0 ~ 1V	Power supply ON
3.3 ~ 5.6V	Power supply OFF



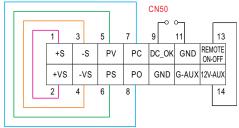
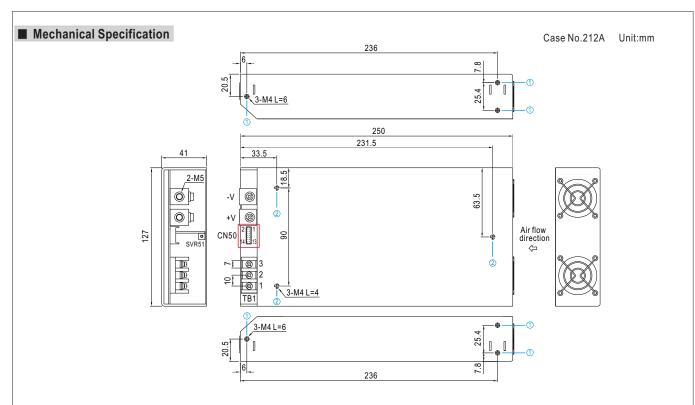


Fig 5.1





※ Mounting Instruction

Hole No.	Recommended Screw Size	MAX. Penetration Depth L	Recommended mounting torque
1	M4	6mm	7~11Kgf-cm
2	M4	4mm	7~11Kgf-cm

Mounting Surface

Chassis of RSP-750

Mounting Screw



Mating Housing	HRS DF11-14DS or equivalent		
Terminal	HRS DF11-**SC or equivalent		

Pin No.	Function	Description			
1	+S	ositive sensing for remote sense.			
2	+VS	+V Signal. The +VS should be connected to the +S to reduce the noise when "output voltage programming" function is in use.			
3	-S	Negative sensing for remote sense.			
4	-VS	-V Signal. The -VS should be connected to the -S to reduce the noise when "output voltage programming" function is in use.			
5	PV	Connect to external DC voltage source for output voltage programming, referenced to pin 10,11 (GND).			
6	PS	Reference pin regarding output voltage programming. Please refer to the Function Manual.			
7	PC	Connect to external DC voltage source for output current programming.			
8	PO	Reference pin regarding output current programming. Please refer to the Function Manual.			
9	DC_OK	Open collector signal, referenced to pin10,11(GND). Low when PSU turns on. The maximum sink current is 10mA and the maximum external voltage is 5.6V.			
10,11	GND	These pins connect to the negative terminal (-V). Return for DC_OK Signal output.			
12	G-AUX	Auxiliary voltage output ground. The signal return is isolated from the output terminals (+V & -V).			
13		Turns the output on and off by electrical or dry contact between pin 13 ( ON/OFF) and pin 14 (12V-AUX). Short: Power ON, Open: Power OFF.			
14	12V-AUX	Auxiliary voltage output 10.9~13.2V referenced to pin 12/G AUX)			





 $\frak{\mathcal{K}}\mbox{AC Input Terminal Pin No. Assignment}$ 

Pin No.	Assignment	Diagram		Maximum mounting torque
1	AC/N		0-0-0-0	
2	AC/L	888		18Kgf-cm
3	FG ±			

※DC Output Terminal Pin No. Assignment

Assignment	Diagram	Maximum mounting torque
+V, -V		10Kgf-cm

## ■ Installation Manual

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