

Dimension

L * W * H 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

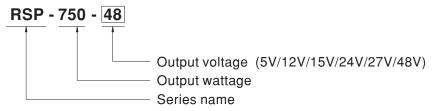
Applications

- 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		
	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		
DUTPUT	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 fu		1 - 3.370		,			
	HOLD UP TIME (Typ.)	16ms/230VAC 16ms/115VAC at full load							
	, , , ,		27 ~ 370VDC						
	FREQUENCY RANGE	47 ~ 63Hz	27 070400						
	POWER FACTOR (Typ.)).98/115VAC at full lo	and					
NPUT	, ,,		1		00 50/	00 50/	000/		
NPUI	EFFICIENCY (Typ.)	82%	87%	89%	90.5%	90.5%	92%		
	AC CURRENT (Typ.)	5V : 5.6A/115VAC	2.8A/230VAC	12V~48V : 8.2A/11	5VAC 3.9A/230VAC	,			
	INRUSH CURRENT (Typ.)		0A/230VAC						
	LEAKAGE CURRENT	<2.0mA / 240VAC							
	OVERLOAD	105 ~ 125% rated o	· ·						
	OVERLOAD	**		-	ally after fault condition is				
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 VOLIAGE (OVP)	Protection type : Sh	ut down o/p voltage,	re-power on to recove	er				
	OVER TEMPERATURE		•	tically after temperatu					
	OUTPUT VOLTAGE PROGRAMMABLE(PV)				ominal output voltage. Pl				
	CONSTANT CURRENT LEVEL PROGRAMMABLE(PC)	Adjustment of cons	stant current level is	allowable to 40 ~ 110)% of rated current. Plea	se refer to the Fu	nction Manual.		
FUNCTION	AUXILIARY POWER	12V @ 0.1A; tolera	nce: ±10%						
	REMOTE ON-OFF CONTROL	Power on : short between	n Remote ON-OFF(pin1)	3) & 12V-AUX(pin14) on Cl	N50 Power off : open betwee	n Remote ON-OFF(pir	113) & 12-AUX(pin14) on CN		
	DC OK SIGNAL	The TTL signal out,	power supply turn or	n = 0 ~ 1V ; power sup	ply turn off = 3.3 ~ 5.6V				
	WORKING TEMP.		to "Derating Curve")		· ·				
		20 ~ 90% RH non-condensing							
ENVIRONMENT.	WORKING HUMIDITY	20 ~ 90% RH non-c	ondensing						
ENVIRONMENT	WORKING HUMIDITY STORAGE TEMP., HUMIDITY		ondensing 5% RH non-condens	ing					
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 9	5% RH non-condens	ing					
ENVIRONMENT	STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT	-40 ~ +85°C, 10 ~ 9 ±0.03%/°C (0 ~ 50	5% RH non-condens		3				
ENVIRONMENT	STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION	-40 ~ +85°C, 10 ~ 9 ±0.03%/°C (0 ~ 50 10 ~ 500Hz, 2G 10r	5% RH non-condens °C) nin./1cycle, 60min. e	ach along X, Y, Z axes		approved			
ENVIRONMENT	STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS	-40 ~ +85°C, 10 ~ 9 ±0.03%/°C (0 ~ 50 10 ~ 500Hz, 2G 10r UL62368-1, TUV E	5% RH non-condens °C) nin./1cycle, 60min. e N62368-1, EAC TP	ach along X, Y, Z axes TC 004, CCC GB494	3.1, BSMI CNS14336-1	approved			
ENVIRONMENT	STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE	-40 ~ +85°C, 10 ~ 9 ±0.03%/°C (0 ~ 50 10 ~ 500Hz, 2G 10r UL62368-1, TUV E I/P-O/P:3KVAC I/	5% RH non-condens °C) nin./1cycle, 60min. e N62368-1, EAC TP P-FG:2KVAC O/P-	ach along X, Y, Z axes TC 004, CCC GB494 FG:0.5KVAC	3.1, BSMI CNS14336-1	approved			
ENVIRONMENT	STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS	-40 ~ +85°C, 10 ~ 9 ±0.03%/°C (0 ~ 50 10 ~ 500Hz, 2G 10r UL62368-1, TUV E I/P-O/P:3KVAC I/ I/P-O/P, I/P-FG, O/F	5% RH non-condens °C) nin./1cycle, 60min. e N62368-1, EAC TP P-FG:2KVAC O/P-	ach along X, Y, Z axes TC 004, CCC GB494 -FG:0.5KVAC 00VDC / 25°C/ 70% R	3.1, BSMI CNS14336-1		e		
ENVIRONMENT	STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE	-40 ~ +85°C, 10 ~ 9 ±0.03%/°C (0 ~ 50 10 ~ 500Hz, 2G 10r UL62368-1, TUV E I/P-O/P:3KVAC I/ I/P-O/P, I/P-FG, O/F Parameter	5% RH non-condens °C) nin./1cycle, 60min. e N62368-1, EAC TP P-FG:2KVAC O/P-	ach along X, Y, Z axes TC 004, CCC GB494 -FG:0.5KVAC 00VDC / 25°C/ 70% R Standard	3.1, BSMI CNS14336-1	Test Level / Note	e		
ENVIRONMENT	STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE	$-40 \sim +85^{\circ}\text{C}$, $10 \sim 9$ $\pm 0.03\%'^{\circ}\text{C}$ ($0 \sim 50$ $10 \sim 500\text{Hz}$, 2G 10r UL62368-1, TUV E I/P-O/P:3KVAC I/ I/P-O/P, I/P-FG, O/F Parameter Conducted	5% RH non-condens °C) nin./1cycle, 60min. e N62368-1, EAC TP P-FG:2KVAC O/P-	ach along X, Y, Z axes TC 004, CCC GB494 .FG:0.5KVAC 00VDC / 25°C/ 70% R Standard EN55032 (CISPR	3.1, BSMI CNS14336-1 H 32) / EN55011 (CISPR11)	Test Level / Note	e		
NVIRONMENT	STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE	-40 ~ +85°C, 10 ~ 9 ±0.03%/°C (0 ~ 50 10 ~ 500Hz, 2G 10r UL62368-1, TUV E I/P-O/P:3KVAC I/ I/P-O/P, I/P-FG, O/F Parameter Conducted Radiated	5% RH non-condens °C) nin./1cycle, 60min. e N62368-1, EAC TP P-FG:2KVAC O/P-	ach along X, Y, Z axes TC 004, CCC GB494 FG:0.5KVAC 00VDC / 25°C/ 70% R Standard EN55032 (CISPR EN55032 (CISPR	3.1, BSMI CNS14336-1	Test Level / Note Class B Class B	e		
	STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE	-40 ~ +85°C, 10 ~ 9 ±0.03%/°C (0 ~ 50 10 ~ 500Hz, 2G 10r UL62368-1, TUV E I/P-O/P:3KVAC I/ I/P-O/P, I/P-FG, O/F Parameter Conducted Radiated Harmonic Current	5% RH non-condens °C) nin./1cycle, 60min. e N62368-1, EAC TP P-FG:2KVAC O/P-	ach along X, Y, Z axes TC 004, CCC GB494 FG:0.5KVAC 00VDC / 25°C / 70% R Standard EN55032 (CISPR EN55032 (CISPR EN61000-3-2	3.1, BSMI CNS14336-1 H 32) / EN55011 (CISPR11)	Test Level / Note Class B Class B	e		
	STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE	-40 ~ +85°C, 10 ~ 9 ±0.03%/°C (0 ~ 50 10 ~ 500Hz, 2G 10r UL62368-1, TUV E I/P-O/P:3KVAC I/ I/P-O/P, I/P-FG, O/F Parameter Conducted Radiated Harmonic Current Voltage Flicker	5% RH non-condens °C) nin./1cycle, 60min. e N62368-1, EAC TP P-FG:2KVAC O/P- P-FG:100M Ohms / 5	ach along X, Y, Z axes TC 004, CCC GB494 FG:0.5KVAC 00VDC / 25°C / 70% R Standard EN55032 (CISPR EN55032 (CISPR EN61000-3-2 EN61000-3-3	3.1, BSMI CNS14336-1 H 32) / EN55011 (CISPR11) 32) / EN55011 (CISPR11)	Test Level / Note Class B Class B	e		
SAFETY &	STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE	-40 ~ +85°C, 10 ~ 9 ±0.03%/°C (0 ~ 50 10 ~ 500Hz, 2G 10r UL62368-1, TUV E I/P-O/P:3KVAC I/ I/P-O/P, I/P-FG, O/F Parameter Conducted Radiated Harmonic Current Voltage Flicker EN55024, EN6120	5% RH non-condens °C) nin./1cycle, 60min. e N62368-1, EAC TP P-FG:2KVAC O/P- P-FG:100M Ohms / 5	ach along X, Y, Z axes TC 004, CCC GB494 FG:0.5KVAC 00VDC / 25°C / 70% R Standard EN55032 (CISPR EN55032 (CISPR EN61000-3-2 EN61000-3-3	3.1, BSMI CNS14336-1 H 32) / EN55011 (CISPR11)	Test Level / Note Class B Class B			
SAFETY &	STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE	-40 ~ +85°C, 10 ~ 9 ±0.03%/°C (0 ~ 50 10 ~ 500Hz, 2G 10r UL62368-1, TUV E I/P-O/P:3KVAC I/ I/P-O/P, I/P-FG, O/F Parameter Conducted Radiated Harmonic Current Voltage Flicker EN55024, EN6120 Parameter	5% RH non-condens °C) nin./1cycle, 60min. e N62368-1, EAC TP P-FG:2KVAC O/P- P-FG:100M Ohms / 5	ach along X, Y, Z axes TC 004, CCC GB494 FG:0.5KVAC 00VDC / 25°C/ 70% R Standard EN55032 (CISPR EN55032 (CISPR EN61000-3-2 EN61000-3-3 CCC GB17625.1,GB/T Standard	3.1, BSMI CNS14336-1 H 32) / EN55011 (CISPR11) 32) / EN55011 (CISPR11)	Test Level / Note Class B Class B Test Level / Note Class B	e		
SAFETY &	STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE	-40 ~ +85°C, 10 ~ 9 ±0.03%/°C (0 ~ 50 10 ~ 500Hz, 2G 10r UL62368-1, TUV E I/P-O/P:3KVAC I/ I/P-O/P, I/P-FG, O/F Parameter Conducted Radiated Harmonic Current Voltage Flicker EN55024, EN6120 Parameter ESD	5% RH non-condens °C) nin./1cycle, 60min. e N62368-1, EAC TP P-FG:2KVAC O/P- P-FG:100M Ohms / 5	ach along X, Y, Z axes TC 004, CCC GB494 FG:0.5KVAC 00VDC / 25°C/ 70% R Standard EN55032 (CISPR EN55032 (CISPR EN61000-3-2 EN61000-3-3 CC GB17625.1,GB/T Standard EN61000-4-2	3.1, BSMI CNS14336-1 H 32) / EN55011 (CISPR11) 32) / EN55011 (CISPR11)	Test Level / Note Class B Class B Test Level / Note Level 3, 8KV air			
SAFETY &	STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE	-40 ~ +85°C, 10 ~ 9 ±0.03%/°C (0 ~ 50 10 ~ 500Hz, 2G 10r UL62368-1, TUV E I/P-O/P:3KVAC I/ I/P-O/P, I/P-FG, O/F Parameter Conducted Radiated Harmonic Current Voltage Flicker EN55024 , EN6120 Parameter ESD Radiated	5% RH non-condens °C) nin./1cycle, 60min. e N62368-1, EAC TP P-FG:2KVAC O/P- P-FG:100M Ohms / 5	ach along X, Y, Z axes TC 004, CCC GB494 FG:0.5KVAC 00VDC / 25°C/ 70% R Standard EN55032 (CISPR EN55032 (CISPR EN61000-3-2 EN61000-3-3 CC GB17625.1,GB/T Standard EN61000-4-2 EN61000-4-3	3.1, BSMI CNS14336-1 H 32) / EN55011 (CISPR11) 32) / EN55011 (CISPR11)	Test Level / Note Class B Class B Test Level / Note Level 3, 8KV air Level 3	e		
SAFETY &	STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION	-40 ~ +85°C, 10 ~ 9 ±0.03%/°C (0 ~ 50 10 ~ 500Hz, 2G 10r UL62368-1, TUV E I/P-O/P:3KVAC I/ I/P-O/P, I/P-FG, O/F Parameter Conducted Radiated Harmonic Current Voltage Flicker EN55024, EN6120 Parameter ESD	5% RH non-condens °C) nin./1cycle, 60min. e N62368-1, EAC TP P-FG:2KVAC O/P- P-FG:100M Ohms / 5	ach along X, Y, Z axes TC 004, CCC GB494 FG:0.5KVAC 00VDC / 25°C / 70% R Standard EN55032 (CISPR EN55032 (CISPR EN61000-3-2 EN61000-3-3 CC GB17625.1,GB/T Standard EN61000-4-2 EN61000-4-3 EN61000-4-3	3.1, BSMI CNS14336-1 H 32) / EN55011 (CISPR11) 32) / EN55011 (CISPR11)	Test Level / Note Class B Class B Test Level / Note Level 3, 8KV air	e		
SAFETY &	STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE	-40 ~ +85°C, 10 ~ 9 ±0.03%/°C (0 ~ 50 10 ~ 500Hz, 2G 10r UL62368-1, TUV E I/P-O/P:3KVAC I/ I/P-O/P, I/P-FG, O/F Parameter Conducted Radiated Harmonic Current Voltage Flicker EN55024, EN6120 Parameter ESD Radiated EFT / Burst Surge	5% RH non-condens °C) nin./1cycle, 60min. e N62368-1, EAC TP P-FG:2KVAC O/P- P-FG:100M Ohms / 5	ach along X, Y, Z axes TC 004, CCC GB494 FG:0.5KVAC 00VDC / 25°C / 70% R Standard EN55032 (CISPR EN61000-3-2 EN61000-3-3 CC GB17625.1,GB/T Standard EN61000-4-2 EN61000-4-3 EN61000-4-3 EN61000-4-5	3.1, BSMI CNS14336-1 H 32) / EN55011 (CISPR11) 32) / EN55011 (CISPR11)	Test Level / Note Class B Class B Test Level / Note Level 3, 8KV air Level 3 Level 3 Level 3 Level 4, 4KV/Line-tevel 4, 4KV/Line-tevel 4	e ; Level 2, 4KV contact		
SAFETY &	STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION	-40 ~ +85°C, 10 ~ 9 ±0.03%/°C (0 ~ 50 10 ~ 500Hz, 2G 10r UL62368-1, TUV E I/P-O/P:3KVAC I/ I/P-O/P, I/P-FG, O/F Parameter Conducted Radiated Harmonic Current Voltage Flicker EN55024, EN6120 Parameter ESD Radiated EFT / Burst Surge Conducted	5% RH non-condens °C) nin./1cycle, 60min. e N62368-1, EAC TP P-FG:2KVAC O/P- P-FG:100M Ohms / 5	ach along X, Y, Z axes TC 004, CCC GB494 FG:0.5KVAC 00VDC / 25°C / 70% R Standard EN55032 (CISPR EN61000-3-2 EN61000-3-3 CC GB17625.1,GB/T Standard EN61000-4-2 EN61000-4-3 EN61000-4-5 EN61000-4-6	3.1, BSMI CNS14336-1 H 32) / EN55011 (CISPR11) 32) / EN55011 (CISPR11)	Test Level / Note Class B Class B Test Level / Note Level 3, 8KV air Level 3 Level 3 Level 4, 4KV/Line-ELevel 3	e ; Level 2, 4KV contact		
SAFETY & EMC Note 7)	STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION	-40 ~ +85°C, 10 ~ 9 ±0.03%/°C (0 ~ 50 10 ~ 500Hz, 2G 10r UL62368-1, TUV E I/P-O/P:3KVAC I/ I/P-O/P, I/P-FG, O/F Parameter Conducted Radiated Harmonic Current Voltage Flicker EN55024, EN6120 Parameter ESD Radiated EFT / Burst Surge	5% RH non-condens °C) nin./1cycle, 60min. e N62368-1, EAC TP P-FG:2KVAC O/P- P-FG:100M Ohms / 5	ach along X, Y, Z axes TC 004, CCC GB494 FG:0.5KVAC 00VDC / 25°C / 70% R Standard EN55032 (CISPR EN61000-3-2 EN61000-3-3 CC GB17625.1,GB/T Standard EN61000-4-2 EN61000-4-3 EN61000-4-3 EN61000-4-5	3.1, BSMI CNS14336-1 H 32) / EN55011 (CISPR11) 32) / EN55011 (CISPR11)	Test Level / Note Class B Class B Test Level / Note Level 3, 8KV air Level 3 Level 3 Level 3 Level 4, 4KV/Line-tevel 4, 4KV/Line-tevel 4	e ; Level 2, 4KV contact		
SAFETY &	STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION	-40 ~ +85°C, 10 ~ 9 ±0.03%/°C (0 ~ 50 10 ~ 500Hz, 2G 10r UL62368-1, TUV E I/P-O/P:3KVAC I/ I/P-O/P, I/P-FG, O/F Parameter Conducted Radiated Harmonic Current Voltage Flicker EN55024, EN6120 Parameter ESD Radiated EFT / Burst Surge Conducted	5% RH non-condens °C) nin./1cycle, 60min. e N62368-1, EAC TP P-FG:2KVAC O/PFG:100M Ohms / 5	ach along X, Y, Z axes TC 004, CCC GB494 FG:0.5KVAC 00VDC / 25°C / 70% R Standard EN55032 (CISPR EN61000-3-2 EN61000-3-3 CC GB17625.1,GB/T Standard EN61000-4-2 EN61000-4-3 EN61000-4-5 EN61000-4-6	3.1, BSMI CNS14336-1 H 32) / EN55011 (CISPR11) 32) / EN55011 (CISPR11)	Test Level / Note Class B Class B Test Level / Note Level 3, 8KV air Level 3 Level 3 Level 4, 4KV/Line-F Level 3 Level 4	e; Level 2, 4KV contact Earth; Level 3, 2KV/Line-L		
SAFETY &	STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION	-40 ~ +85°C, 10 ~ 9 ±0.03%/°C (0 ~ 50 10 ~ 500Hz, 2G 10r UL62368-1, TUV E I/P-O/P:3KVAC I/ I/P-O/P, I/P-FG, O/F Parameter Conducted Radiated Harmonic Current Voltage Flicker EN55024, EN6120 Parameter ESD Radiated EFT / Burst Surge Conducted Magnetic Field Voltage Dips and In	5% RH non-condens °C) nin./1cycle, 60min. e N62368-1, EAC TP P-FG:2KVAC O/P- P-FG:100M Ohms / 5 4-3, EN61000-6-2, C	ach along X, Y, Z axes TC 004, CCC GB494 -FG:0.5KVAC 00VDC / 25°C/ 70% R Standard EN55032 (CISPR EN55032 (CISPR EN61000-3-2 EN61000-3-3 -CC GB17625.1,GB/T Standard EN61000-4-2 EN61000-4-3 EN61000-4-5 EN61000-4-6 EN61000-4-8	3.1, BSMI CNS14336-1. H 32) / EN55011 (CISPR11) 32) / EN55011 (CISPR11) 9254, BSMI CNS13438	Test Level / Note Class B Class B Test Level / Note Level 3, 8KV air Level 3 Level 3 Level 3 Level 4, 4KV/Line-B Level 4 -95% dip 0.5 per -95% interruptio	e; Level 2, 4KV contact Earth; Level 3, 2KV/Line-L		
SAFETY & EMC Note 7)	STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION EMC IMMUNITY	-40 ~ +85°C, 10 ~ 9 ±0.03%/°C (0 ~ 50 10 ~ 500Hz, 2G 10r UL62368-1, TUV E I/P-O/P:3KVAC I/ I/P-O/P, I/P-FG, O/F Parameter Conducted Radiated Harmonic Current Voltage Flicker EN55024, EN6120 Parameter ESD Radiated EFT / Burst Surge Conducted Magnetic Field Voltage Dips and In	5% RH non-condens °C) nin./1cycle, 60min. e N62368-1, EAC TP P-FG:2KVAC O/P- P-FG:100M Ohms / 5 4-3, EN61000-6-2, C	ach along X, Y, Z axes TC 004, CCC GB494 FG:0.5KVAC 00VDC / 25°C / 70% R Standard EN55032 (CISPR EN61000-3-2 EN61000-3-3 CC GB17625.1,GB/T Standard EN61000-4-2 EN61000-4-3 EN61000-4-6 EN61000-4-6 EN61000-4-8 EN61000-4-8	3.1, BSMI CNS14336-1. H 32) / EN55011 (CISPR11) 32) / EN55011 (CISPR11) 9254, BSMI CNS13438	Test Level / Note Class B Class B Test Level / Note Level 3, 8KV air Level 3 Level 3 Level 3 Level 4, 4KV/Line-B Level 4 -95% dip 0.5 per -95% interruptio	e; Level 2, 4KV contact Earth; Level 3, 2KV/Line-L		
SAFETY &	STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION EMC IMMUNITY	-40 ~ +85°C, 10 ~ 9 ±0.03%/°C (0 ~ 50 10 ~ 500Hz, 2G 10r UL62368-1, TUV E I/P-O/P:3KVAC I/ I/P-O/P, I/P-FG, O/F Parameter Conducted Radiated Harmonic Current Voltage Flicker EN55024, EN6120 Parameter ESD Radiated EFT / Burst Surge Conducted Magnetic Field Voltage Dips and In 336.9K hrs min.	5% RH non-condens °C) nin./1cycle, 60min. e N62368-1, EAC TP P-FG:2KVAC O/P- P-FG:100M Ohms / 5 4-3, EN61000-6-2, C terruptions Telcordia SR-332 (Be	ach along X, Y, Z axes TC 004, CCC GB494 FG:0.5KVAC 00VDC / 25°C / 70% R Standard EN55032 (CISPR EN61000-3-2 EN61000-3-3 CC GB17625.1,GB/T Standard EN61000-4-2 EN61000-4-3 EN61000-4-6 EN61000-4-6 EN61000-4-8 EN61000-4-8	3.1, BSMI CNS14336-1. H 32) / EN55011 (CISPR11) 32) / EN55011 (CISPR11) 9254, BSMI CNS13438	Test Level / Note Class B Class B Test Level / Note Level 3, 8KV air Level 3 Level 3 Level 3 Level 4, 4KV/Line-B Level 4 -95% dip 0.5 per -95% interruptio	e; Level 2, 4KV contact Earth; Level 3, 2KV/Line-L		

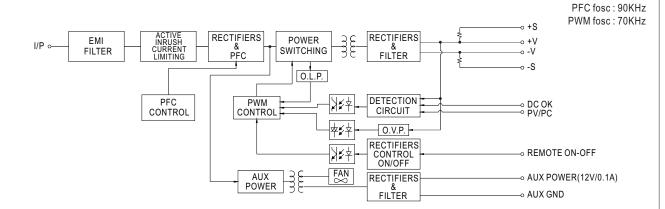
- 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.

- 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)

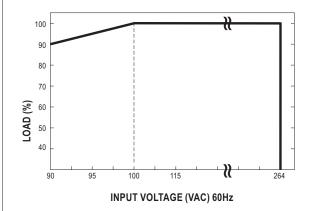
 8. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft).



■ Block Diagram

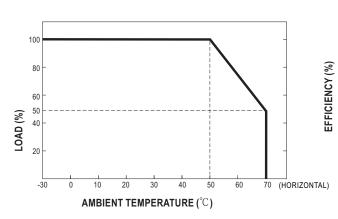


■ Static Characteristics



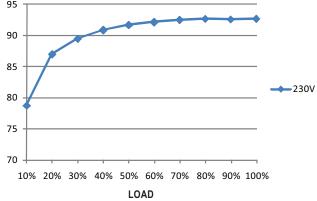
INPUT MODEL	5V	12V	15V
100~264VAC	500W	750W	750W
	100A	62.5A	50A
90VAC	450W	675W	675W
	90A	56.25A	45A
INPUT MODEL	24V	27V	48V
100~264VAC	751.2W	750.6W	753.6W
	31.3A	27.8A	15.7A
90VAC	676.08W	675.54W	678.24W
	28.17A	25.02A	14.13A

■ Derating Curve





■ Efficiency vs Load (48V Model)



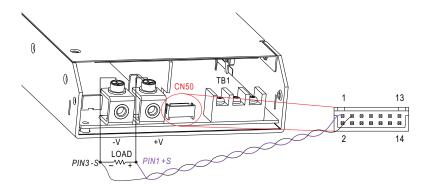
※ The curve above is measured at 230VAC.



■ Function Manual

1.Remote Sense

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



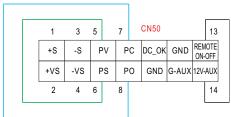
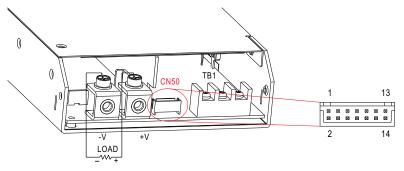


Fig 1.1

- 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.



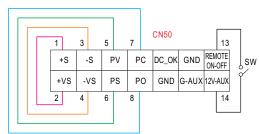


Fig 2.1

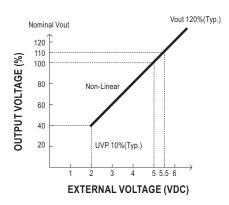
Between Remote ON-OFF(pin13) and 12V-AUX(pin14)	Power Supply Status
SW close (Short)	ON
SW open (Open)	OFF

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

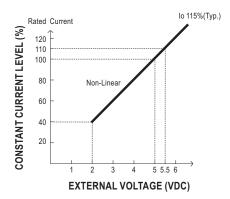
 If EXTERNAL VOLTAGE (VDC) <0.5V, the power supply may enter under voltage protection; it needs to be restarted to work.

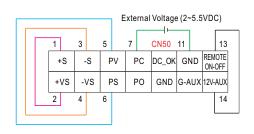
Fig 3.1

** 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)

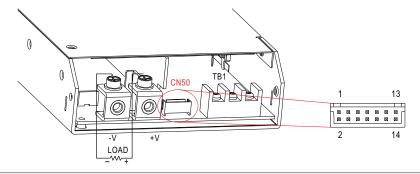
※ The constant current level can be trimmed to 40~110% of the rated current by applying EXTERNAL VOLTAGE.





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.

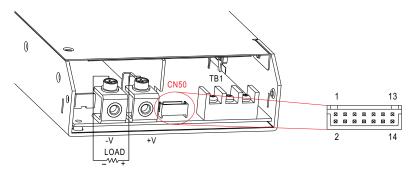




5.DC_OK signal

- * "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



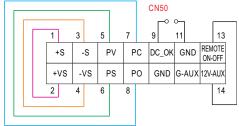
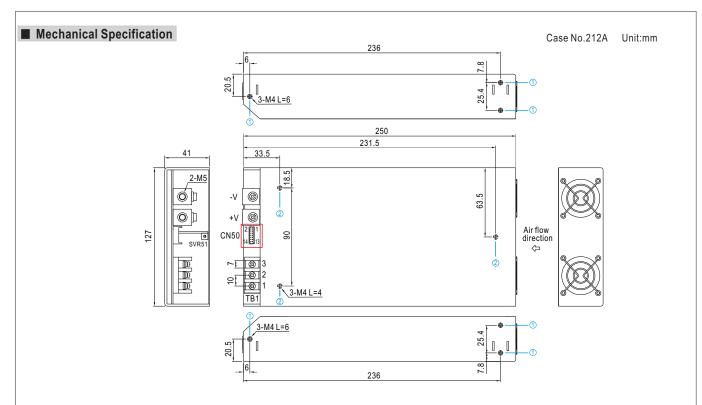


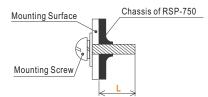
Fig 5.1





Ж	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





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

Pin No.	Function	Description	
1	+S	Positive 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, 10.8~13.2V, referenced to pin 12(G-AUX). The maximum load current is 0.1A. This output is not controlled by the "remote ON/OFF control".	



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

Pin No.	Assignment	Diag	ram	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