



Наличие и актуальные цены на

RSP-1500-15

<https://www.mean-well.ru/store/RSP-1500-15/>



1500W Single Output Power Supply

RSP-1500 series

Dimension

L	*	W	*	H	
278	*	127	*	83.5(2U)	mm
10.9	*	5	*	3.29(2U)	inch

User's Manual



Features

- Universal AC input / Full range
- Built-in active PFC function
- High efficiency up to 91%
- Forced air cooling by built-in DC fan
- Output voltage programmable
- Active current sharing up to 6000W (3+1)
- Built-in remote ON-OFF control / remote sense / auxiliary power / power 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
- Digital broadcasting
- RF application

GTIN CODE

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

Description

RSP-1500 is a 1.5KW 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 working for the temperature up to 70°C. Moreover, RSP-1500 provides vast design flexibility by equipping various built-in functions such as the output programming, active current sharing, remote ON-OFF control, auxiliary power, etc.

Model Encoding / Order Information

RSP - 1500 - 48

Output voltage (5V/12V/15V/24V/27V/48V)

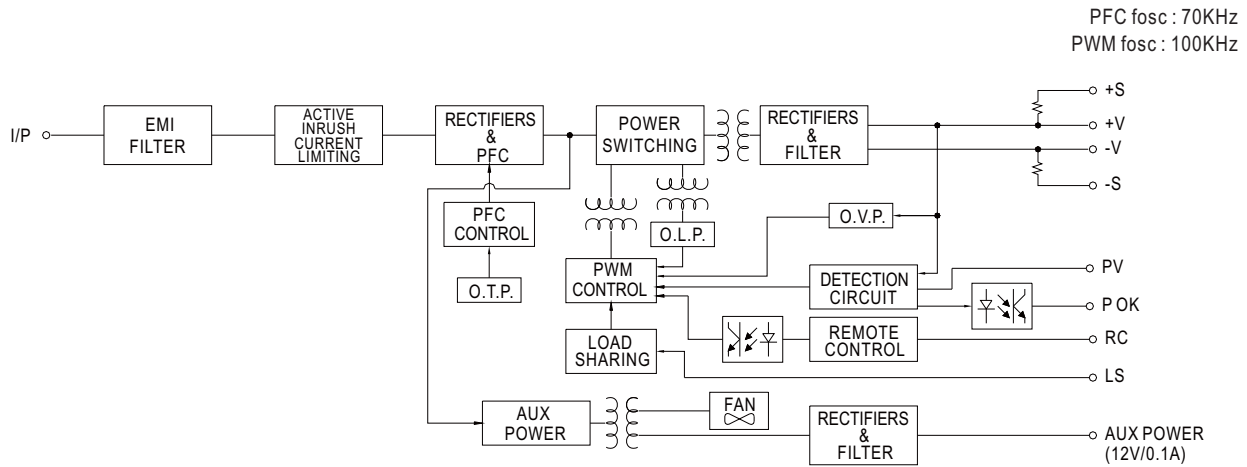
Output wattage

Series name

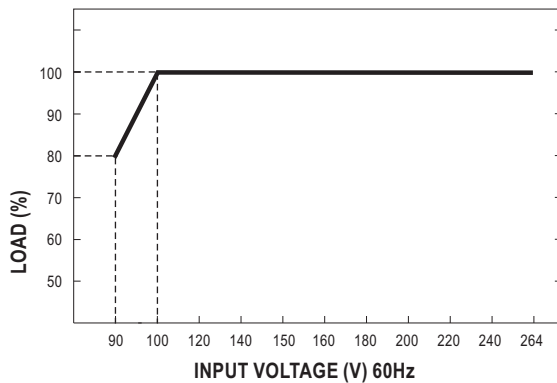
SPECIFICATION

MODEL		RSP-1500-5	RSP-1500-12	RSP-1500-15	RSP-1500-24	RSP-1500-27	RSP-1500-48	
OUTPUT	DC VOLTAGE	5V	12V	15V	24V	27V	48V	
	RATED CURRENT	240A	125A	100A	63A	56A	32A	
	CURRENT RANGE	0 ~ 240A	0 ~ 125A	0 ~ 100A	0 ~ 63A	0 ~ 56A	0 ~ 32A	
	RATED POWER	1200W	1500W	1500W	1512W	1512W	1536W	
	RIPPLE & NOISE (max.) Note.2	150mVp-p	150mVp-p	150mVp-p	150mVp-p	150mVp-p	200mVp-p	
	VOLTAGE ADJ. RANGE	4.5 ~ 5.5V	10 ~ 13.5V	13.5 ~ 16.5V	20 ~ 26.4V	24 ~ 30V	43 ~ 56V	
	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	1500ms, 100ms at full load						
HOLD UP TIME (Typ.)	10ms at full load			14ms at full load		16ms at full load		
INPUT	VOLTAGE RANGE	90 ~ 264VAC 127 ~ 370VDC						
	FREQUENCY RANGE	47 ~ 63Hz						
	POWER FACTOR (Typ.)	0.95/230VAC 0.98/115VAC at full load						
	EFFICIENCY (Typ.)	80%	87%	87%	90%	90%	91%	
	AC CURRENT (Typ.)	17A/115VAC 8A/230VAC						
	INRUSH CURRENT (Typ.)	30A/115VAC 60A/230VAC						
	LEAKAGE CURRENT	<2.0mA / 240VAC						
PROTECTION	OVERLOAD Note.4	105 ~ 135% rated output power Protection type : Constant current limiting unit will shut down o/p voltage after 5sec. Re-power on to recover						
	OVER VOLTAGE	5.75 ~ 6.75V	13.8 ~ 16.8V	17 ~ 20.5V	27.6 ~ 32.4V	31 ~ 36.5V	57.6 ~ 67.2V	
		Protection type : Shut down o/p voltage, re-power on to recover						
	OVER TEMPERATURE	Shut down o/p voltage, recovers automatically after temperature goes down						
FUNCTION	OUTPUT VOLTAGE PROGRAMMABLE(PV)	Adjustment of output voltage is allowable to 70 ~ 100% of nominal output voltage. Please refer to the Function Manual.						
	CURRENT SHARING	Up to 6000W or (3+1) units. Please refer to the Function Manual.						
	AUXILIARY POWER	12V@0.1A(Only for Remote ON-OFF control)						
	REMOTE ON-OFF CONTROL	Please see the Function Manual.						
	REMOTE SENSE	Compensate voltage drop on the load wiring up to 0.3V. Please refer to the Function Manual.						
	ALARM SIGNAL OUTPUT	Power OK signal. Please see the Function Manual.						
ENVIRONMENT	WORKING TEMP.	-20 ~ +70℃ (Refer to "Derating Curve")						
	WORKING HUMIDITY	20 ~ 90% RH non-condensing						
	STORAGE TEMP., HUMIDITY	-40 ~ +85℃, 10 ~ 95% RH non-condensing						
	TEMP. COEFFICIENT	±0.05%/℃ (0 ~ 50℃)						
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes						
SAFETY & EMC (Note 5)	SAFETY STANDARDS	UL62368-1, CAN/CSA C22.2 No. 62368-1, TUV BS EN/EN62368-1, BSMI CNS15598-1, AS/NZS62368.1, 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 / 500VDC / 25℃ / 70% RH						
	EMC EMISSION	Parameter	Standard			Test Level / Note		
		Conducted	BS EN/EN55032 (CISPR32), BSMI CNS15936			Class B/Class A (only for BSMI)		
		Radiated	BS EN/EN55032 (CISPR32), BSMI CNS15936			Class A		
		Harmonic Current	BS EN/EN61000-3-2			-----		
		Voltage Flicker	BS EN/EN61000-3-3			-----		
	EMC IMMUNITY	BS EN/EN55035, BS EN/EN61000-6-2						
		Parameter	Standard			Test Level / Note		
		ESD	BS EN/EN61000-4-2			Level 3, 8KV air ; Level 2, 4KV contact		
		Radiated	BS EN/EN61000-4-3			Level 3		
		EFT / Burst	BS EN/EN61000-4-4			Level 2		
Surge		BS EN/EN61000-4-5			Level 3, 2KV/Line-Earth ; Level 2, 1KV/Line-Line			
Conducted		BS EN/EN61000-4-6			Level 3			
Magnetic Field		BS EN/EN61000-4-8			Level 4			
	Voltage Dips and Interruptions	BS EN/EN61000-4-11			>95% dip 0.5 periods, 30% dip 25 periods, >95% interruptions 250 periods			
OTHERS	MTBF	814.4K hrs min. Telcordia SR-332 (Bellcore) ; 90.4K hrs min. MIL-HDBK-217F (25℃)						
	DIMENSION	278*127*83.5mm (L*W*H)						
	PACKING	3.0Kg; 4pcs/13Kg/1.19CUFT						
NOTE	1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25℃ of ambient temperature. 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. 3. Tolerance : includes set up tolerance, line regulation and load regulation. 4. Derating may be needed under low input voltages. Please check the derating curve for more details. 5. 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 https://www.meanwell.com/Upload/PDF/EMI_statement_en.pdf) 6. The ambient temperature derating of 3.5℃/1000m with fanless models and of 5℃/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							

Block Diagram

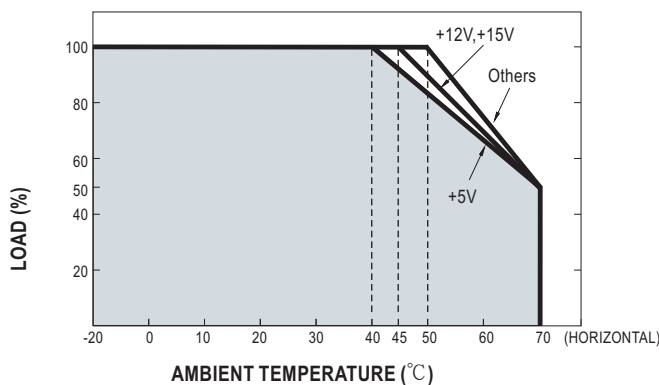


Static Characteristics

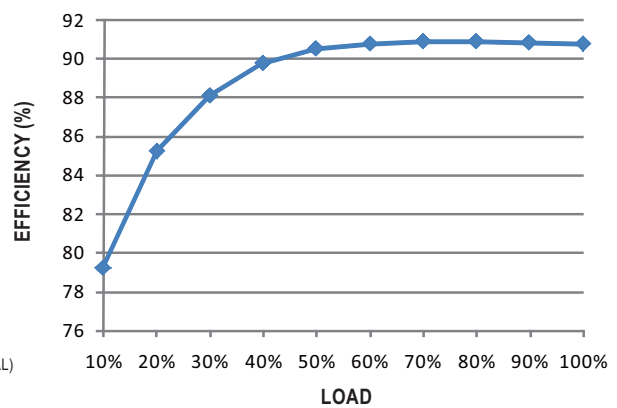


INPUT	MODEL	5V	12V	15V
100~264VAC		1200W 240A	1500W 125A	1500W 100A
	90VAC	960W 192A	1200W 100A	1200W 80A
INPUT	MODEL	24V	27V	48V
100~264VAC		1512W 63A	1512W 56A	1536W 32A
	90VAC	1209.6W 50.4A	1209.6W 44.8A	1228.8W 25.6A

Derating Curve



Efficiency vs Load (48V Model)

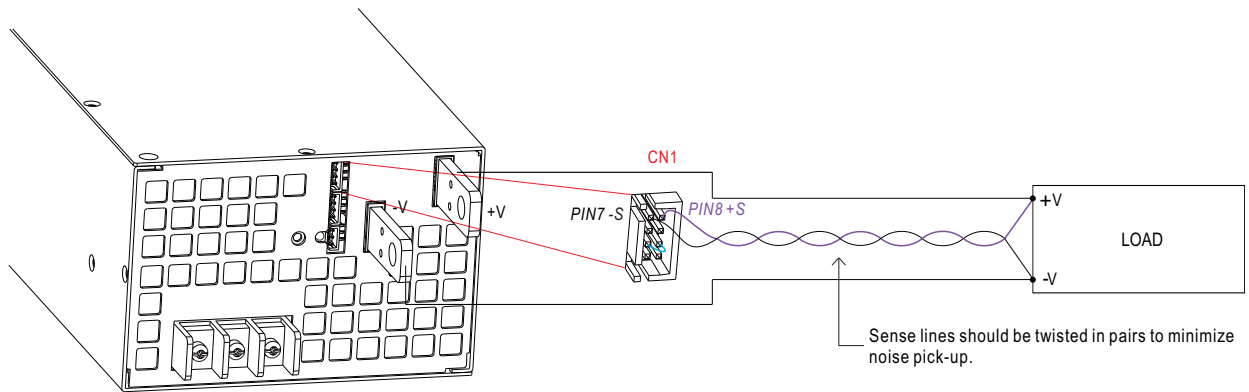


© The curve above is measured at 230VAC.

Function Manual

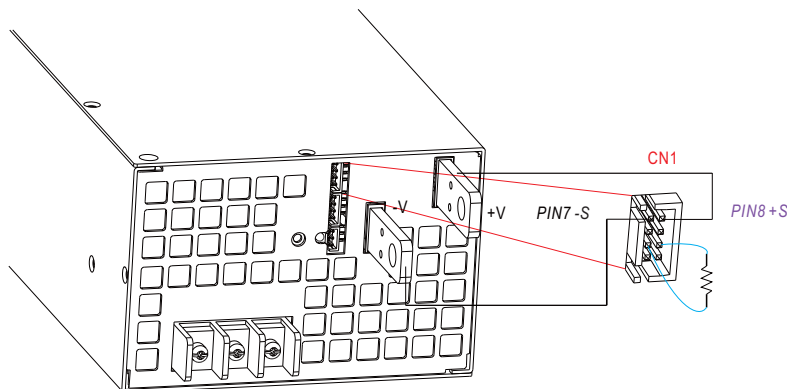
1. Remote Sense

※ The Remote Sense compensates voltage drop on the load wiring up to 0.3V



2. 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 70~100%(Typ.) of the nominal voltage by applying EXTERNAL RESISTANCE



◎ Connect an external resistor between TRIM(pin4) & -S(pin3 or pin4 or pin5) on CN1 or CN2, and +S & +V, -S & -V also need to be connected.

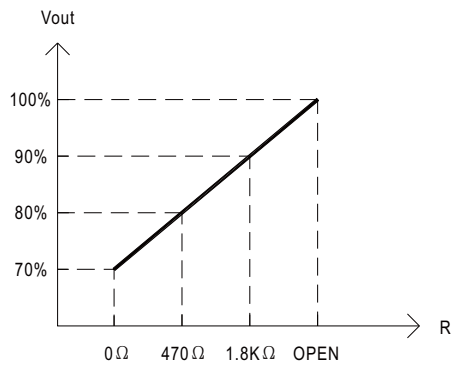
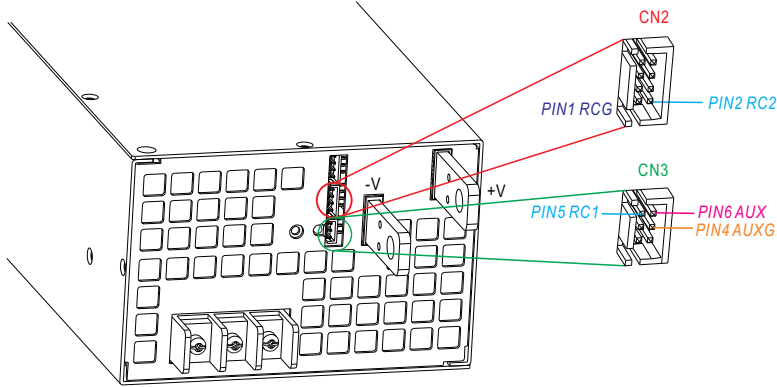


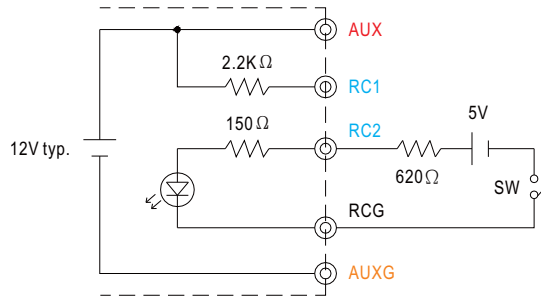
Fig. 2.2 External Resistance (Typical)

3.Remote ON-OFF

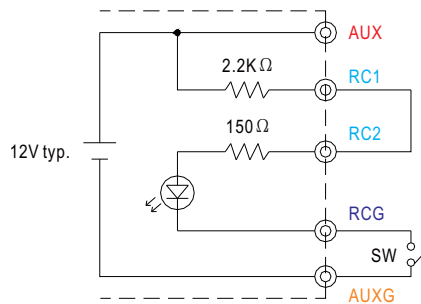
※ Remote ON-OFF is activated by the configuration with respect to CN1,CN2 and CN3 as shown in the following diagram.



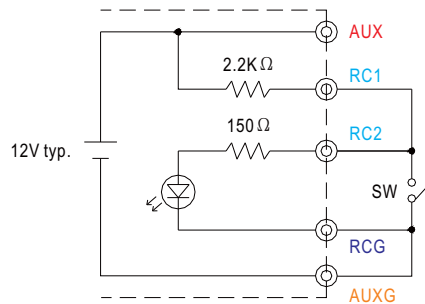
Example 3.2(A): Using external voltage source



Example 3.2(B): Using internal 12V auxiliary output



Example 3.2(C): Using internal 12V auxiliary output

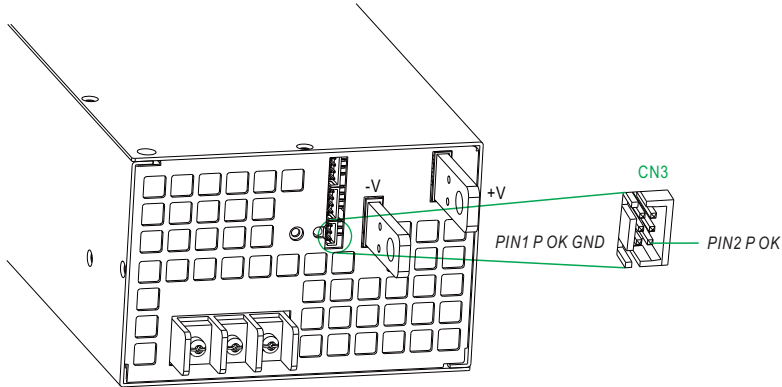


© Connection Method

		Fig. 3.2(A)	Fig. 3.2(B)	Fig. 3.2(C)
SW Logic	Output on	SW Open	SW Open	SW Close
	Output off	SW Close	SW Close	SW Open

4. Alarm Signal Output

※ Alarm signal is sent out through "P OK" & "P OK GND" and pins on CN3. Please acknowledge an external voltage source is required for this function.



Function	Description	Output of alarm(P OK)
P OK	The signal is "Low" when the power supply is above 65% of the rated output voltage, or say, Power OK	Low (0.5V max at 10mA)
	The signal turns to be "High" when the power supply is under 65% of the rated output voltage, or say, Power Fail	High or open (External applied voltage 10mA max.)

Table 4.1 Explanation of alarm

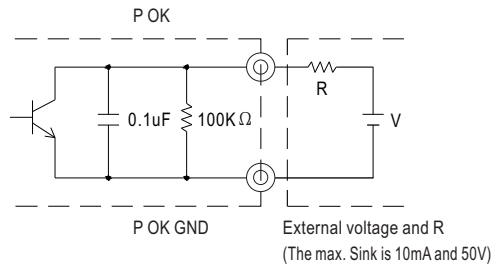


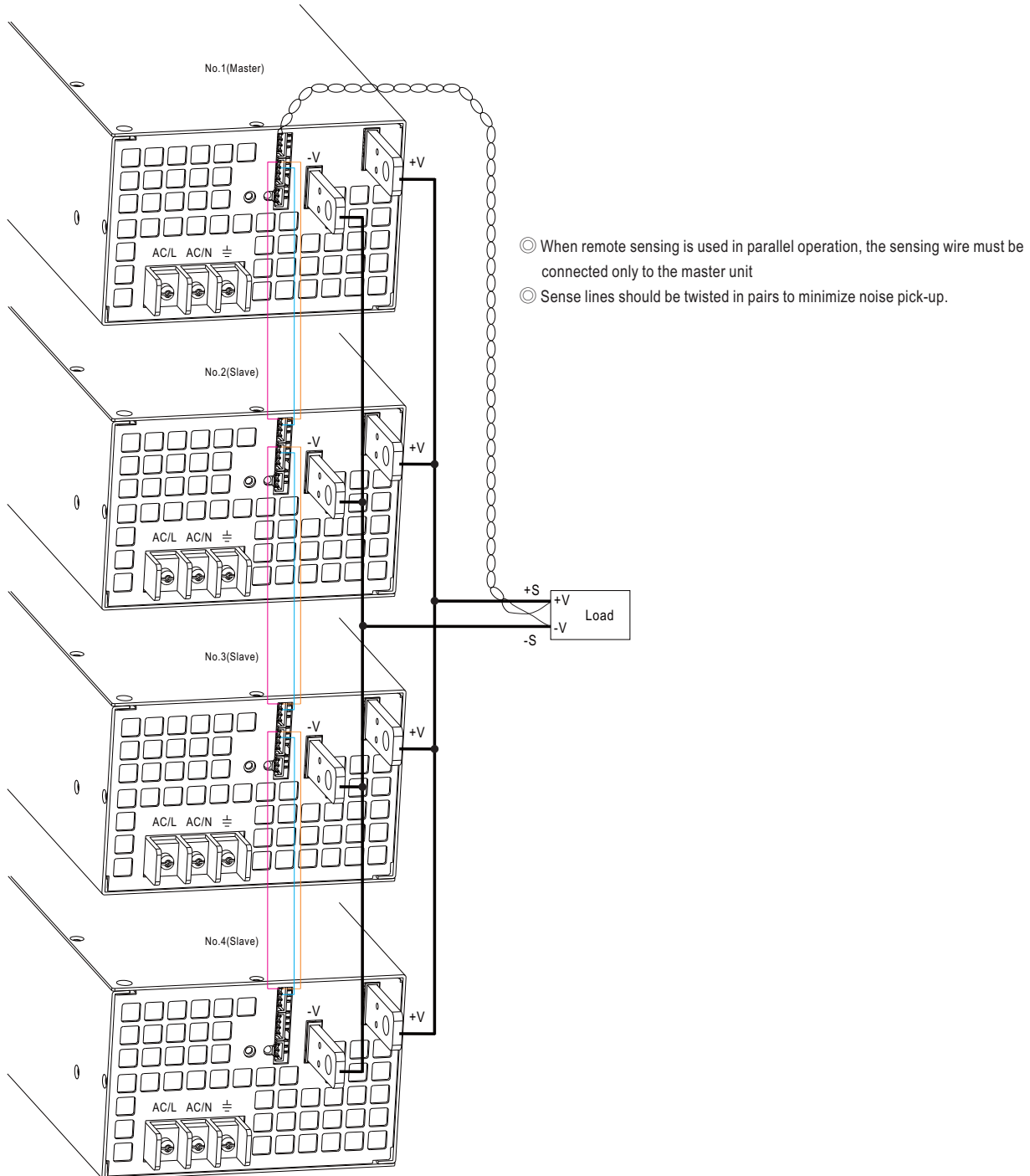
Fig. 4.1 Internal circuit of P OK (Open collector method)

5. Current Sharing with Remote Sense

RSP-1500 has the built-in active current sharing function and can be connected in parallel, up to 4 units, to provide higher output power as exhibited below :

- ※ The power supplies should be paralleled using short and large diameter wiring and then connected to the load.
- ※ Difference of output voltages among parallel units should be less than 0.2V.
- ※ The total output current must not exceed the value determined by the following equation:

$$\text{Maximum output current at parallel operation} = (\text{Rated current per unit}) \times (\text{Number of unit}) \times 0.9$$

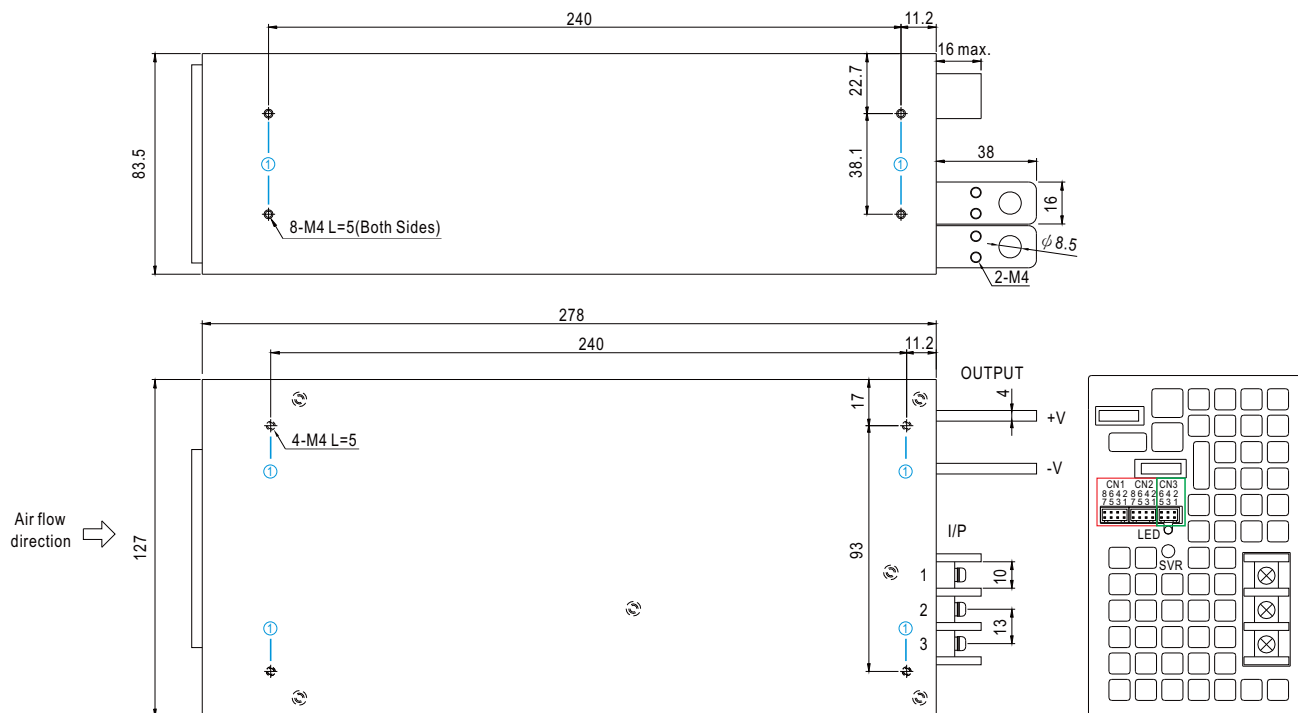


◎ +S, -S and CS are connected mutually in parallel.

■ Mechanical Specification

(Unit: mm , tolerance ± 1 mm)

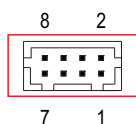
Case No.943A



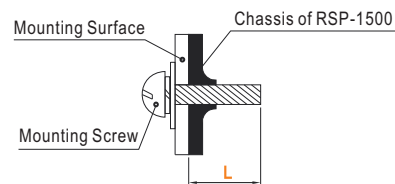
※ Mounting Instruction

Hole No.	Recommended Screw Size	MAX. Penetration Depth L	Recommended mounting torque
①	M4	5mm	7~10Kgf-cm

※ Control Pin No. Assignment (CN1,CN2) : HRS DF11-8DP-2DS or equivalent.



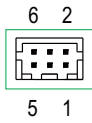
Mating Housing	HRS DF11-8DS or equivalent
Terminal	HRS DF11-**SC or equivalent



© CN1 and CN2 are connected internally.

Pin No.	Function	Description
1	RCG	Remote ON-OFF Ground
2	RC2	Remote ON-OFF
3,5,7	-S	Negative sensing for remote sense
4	TRIM	Connection for output voltage programming
6	LS(Current Share)	Current Share
8	+S	Postive sensing for remote sense

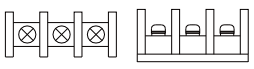
※Control Pin No. Assignment (CN3) : HRS DF11-6DP-2DS or equivalent



Mating Housing	HRS DF11-6DS or equivalent
Terminal	HRS DF11-6**SC or equivalent

Pin No.	Function	Description
1	P OK GND	Power OK Ground
2	P OK	Power OK Signal
3	RCG	Remote ON-OFF Ground
4	AUXG	Auxiliary Ground
5	RC1	Remote ON-OFF
6	AUX	Auxiliary Output

※AC Input Terminal Pin No. Assignment

Pin No.	Assignment	Diagram	Maximum mounting torque
1	FG $\perp$		18Kgf-cm
2	AC/N		
3	AC/L		

■ Installation Manual

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