



Dimension

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



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

Certificates

- Safety: UL/EN/IEC 60950-1
- EMC: EN 55022 / 55024

Applications

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

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 with fan speed control, 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	
	OVER TEMPERATURE	Shut down o/p voltage, recovers automatically after temperature goes down						
	OUTPUT VOLTAGE PROGRAMMABLE(PV)	Adjustment of output voltage is allowable to 70 ~ 100% of nominal output voltage. Please refer to the Function Manual.						
FUNCTION	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	UL60950-1, TUV EN60950-1, EAC TP TC 004, BSMI CNS14336-1 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	EN55032 (CISPR32) / EN55011 (CISPR11)			Class B		
		Radiated	EN55032 (CISPR32) / EN55011 (CISPR11)			Class A		
		Harmonic Current	EN61000-3-2			-----		
	SAFETY & EMC (Note 5)	EMC IMMUNITY	Voltage Flicker	EN61000-3-3			-----	
			EN55024 , EN61204-3, EN61000-6-2, BSMI CNS13438					
			Parameter	Standard			Test Level / Note	
ESD			EN61000-4-2			Level 3, 8KV air ; Level 2, 4KV contact		
EMC IMMUNITY		Radiated	EN61000-4-3			Level 3		
		EFT / Burst	EN61000-4-4			Level 3		
		Surge	EN61000-4-5			Level 3, 2KV/Line-Earth ; Level 2, 1KV/Line-Line		
		Conducted	EN61000-4-6			Level 3		
		Magnetic Field	EN61000-4-8			Level 4		
		Voltage Dips and Interruptions	EN61000-4-11			>95% dip 0.5 periods, 30% dip 25 periods, >95% interruptions 250 periods		
OTHERS	MTBF	265.3K hrs min. Telcordia SR-332 (Bellcore) ; 90.3K 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 http://www.meanwell.com) 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).							