

SPECIFICATION

1500W Single Output Power Supply

SE-1500 series



■ Features :

- AC input 180 ~ 264VAC
- AC input active surge current limiting
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Forced air cooling by built-in DC ball bearing fan
- High power density 7.8w/inch³
- With DC OK signal output
- Built-in remote ON-OFF control
- Built-in remote sense function
- UL / CUL approved
- Low cost
- 2 years warranty



MODEL		SE-1500-5	SE-1500-12	SE-1500-15	SE-1500-24	SE-1500-27	SE-1500-48	
	DC VOLTAGE	5V	12V	15V	24V	27V	48V	
	RATED CURRENT	300A	125A	100A	62.5A	55.6A	31.3A	
ОИТРИТ	CURRENT RANGE	0 ~ 300A	0 ~ 125A	0 ~ 100A	0 ~ 62.5A	0 ~ 55.6A	0 ~ 31.3A	
	RATED POWER	1500W	1500W	1500W	1500W	1501.2W	1502.4W	
	RIPPLE & NOISE (max.) Note.2	150mVp-p	150mVp-p	150mVp-p	150mVp-p	150mVp-p	150mVp-p	
	VOLTAGE ADJ. RANGE	3.3 ~ 5.5V	10.8 ~ 13.5V	13.5 ~ 16.5V	21.6 ~ 26.4V	25 ~ 30V	43.2 ~ 56V	
	VOLTAGE TOLERANCE Note.3	±2.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	
	LINE REGULATION	土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	150ms, 12ms / 230VAC at full load						
	HOLD UP TIME (Typ.)	26ms / 230VAC at full load						
	VOLTAGE RANGE	180 ~ 264VAC 254 ~ 370VDC						
	FREQUENCY RANGE	47 ~ 63Hz						
	EFFICIENCY (Typ.)	81%	85%	85%	87%	88%	89%	
INPUT	AC CURRENT (Typ.)	17.5A / 230VAC						
	INRUSH CURRENT (Typ.)	60A / 230VAC						
	LEAKAGE CURRENT	<3.5mA / 240VAC						
		105 ~ 125% rated output power						
PROTECTION	OVERLOAD			re-power on to recove	er			
		5.75 ~ 6.75V	14.5 ~ 16.2V	18 ~ 21V	27.6 ~ 32.4V	31 ~ 35V	57.6 ~ 67.2V	
	OVER VOLTAGE					01 001	01.0 01.21	
	OVER TEMPERATURE	Protection type: Shut down o/p voltage, re-power on to recover Shut down o/p voltage, recovers automatically after temperature goes down						
	DC OK SIGNAL	PSU turn on:3.3V ~ 5.6V PUS turn off:0 ~ 1V						
FUNCTION	REMOTE CONTROL	RC+/RC-: 0 ~ 0.8V power on; 4 ~ 10V power off						
	WORKING TEMP.	-20 ~ +70°C (Refer to "Derating Curve")						
ENVIRONMENT	WORKING HUMIDITY	20 ~ 90% RH non-condensing						
	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH						
LINVINONIILINI	TEMP. COEFFICIENT	±0.05%/°C (0~50°C)						
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes						
	SAFETY STANDARDS	UL62 <mark>368-1, BSMI C</mark> NS14336-1, EAC TP TC 004 approved; Design refer to BS EN/EN62368-1						
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC O/P-F						
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH						
		Parameter		Standard		Test Level / Not	e	
	EM C EMISSION	Conducted				Class B	B B	
		Radiated	,			Class A		
		Harmonic Current BS EN/EN61000-3-2						
		Voltage Flicker BS EN/EN61000-3-3						
SAFETY &	EMC IMMUNITY	BS EN/EN55024, BS EN/EN61000-6-2						
EMC (Note 4)		Parameter Standard Test Level / Note						
,		ESD)-4-2	Level 3, 8KV air ; Level 2, 4KV contact		
		Radiated		BS EN/EN61000		Level 3		
		EFT / Burst		BS EN/EN61000		Level 3		
		Surge		BS EN/EN61000		2KV/Line-Line 4KV/Line-Earth		
		Conducted		BS EN/EN61000		Level 3		
		Magnetic Field		BS EN/EN61000		Level 4		
		Voltage Dips and Ir	nterruptions	BS EN/EN61000		>95% dip 0.5 periods, 30% dip 25 periods >95% interruptions 250 periods		
	MTBF	333.3K hrs min. Telcordia SR-332 (Bellcore) ; 134.5K hrs min. MIL-HDBK-217F (25°C)						
OTHERS	DIMENSION	278*177.8*63.5mm (L*W*H)						
	PACKING	3.3Kg; 4pcs/14.2Kg/1.14CUFT						
		1-1-10, 15-1-1-10, 11-1-1						

NOTE

- 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C 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.

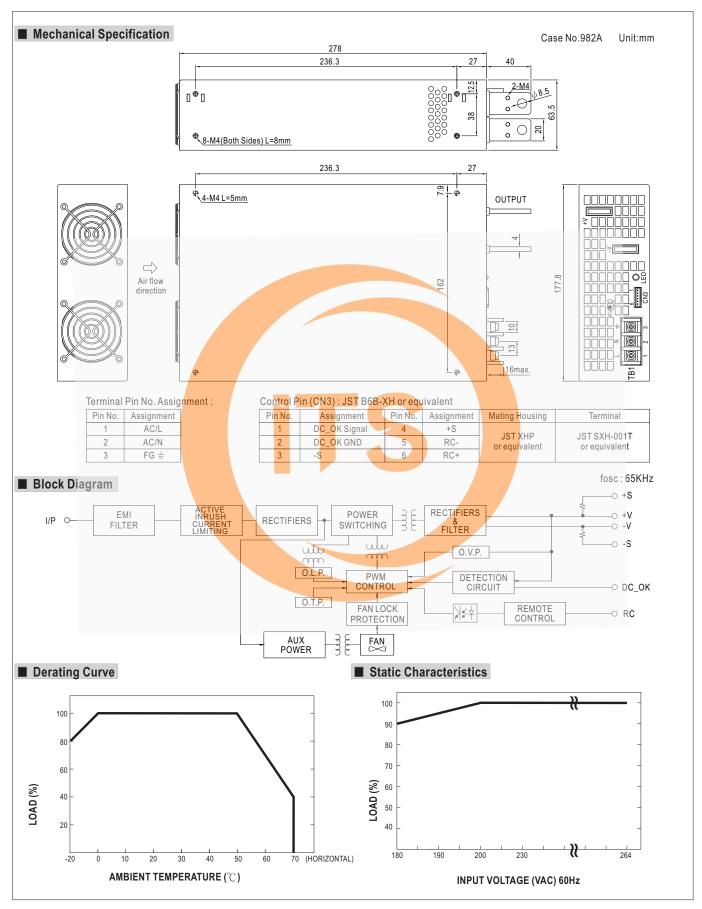
 4. The power supply is considered a component which will be installed into a final equipment. All the EMC tests are been executed by mounting the unit on a 720mm*360mm metal plate with 1mm of thickness. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies." (as available on http://www.meanwell.com)

 5. 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).

 6. This power supply does not meet the harmonic current requirements outlined by EN61000-3-2. Please do not use this power supply under the following conditions:
- under the following conditions:
- a) the end-devices is used within the European Union, and b) the end-devices is connected to public mains supply with 220Vac or greater rated nominal voltage, and
- c) the power supply is:
 installed in end-devices with average or continuous input power greater than 75W, or
- belong to part of a lighting system Exception:

- Power supplies used within the following end-devices do not need to fulfill EN61000-3-2 a) professional equipment with a total rated input power greater than 1000W; b) symmetrically controlled heating elements with a rated power less than or equal to 200W. ** Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx





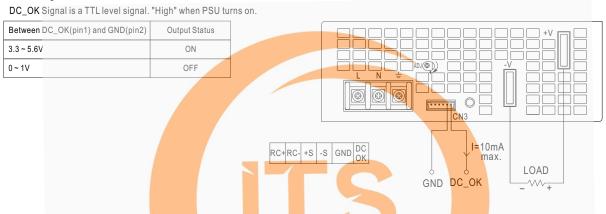


■ Function Description of CN3

Pin No.	Function	Description			
1	DC_OK	DC_OK signal is a TTL level signal, referenced to pin2(DC_OK GND). "High" when PSU turns on.			
2	GND	This pin connects to the negative terminal (-V). Return for DC_OK signal output.			
3		Negative sensing. The -S signal should be connected to the negative terminal of the load. The -S and +S leads should be twisted in pair to minimize noise pick-up effect.			
4		Positive sensing. The +S signal should be connected to the positive terminal of the load. The +S and -S leads should be twisted in pair to minimize noise pick-up effect.			
5	RC-	Return for RC+ signal input.			
6	RC+	Turns the output on and off by electrical or dry contact between pin 6 (RC+) and pin 5 (RC-). 0~0.8V: Power ON, 4~10V: Power OFF.			

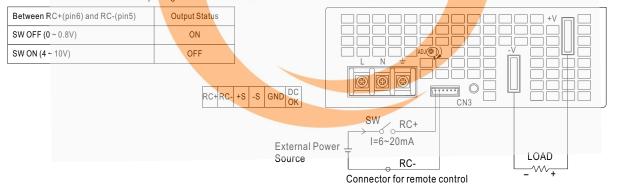
■ Function Manual

1.DC_OK Signal

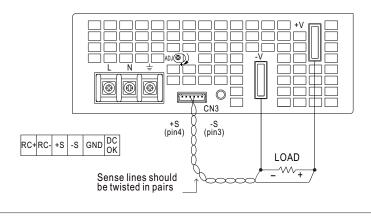


2. Remote Control

The PSU can be turned ON/OFF by using the "Remote Control" function.



3. Remote Sense



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