



#### ■ 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/inch<sup>3</sup>
- With DC OK signal output
- Built-in remote ON-OFF control
- Built-in remote sense function
- UL / CUL approved
- Low cost
- 2 years warranty

User's Manual



CNS14336-1



UL62368-1



TPTC004



IEC62368-1



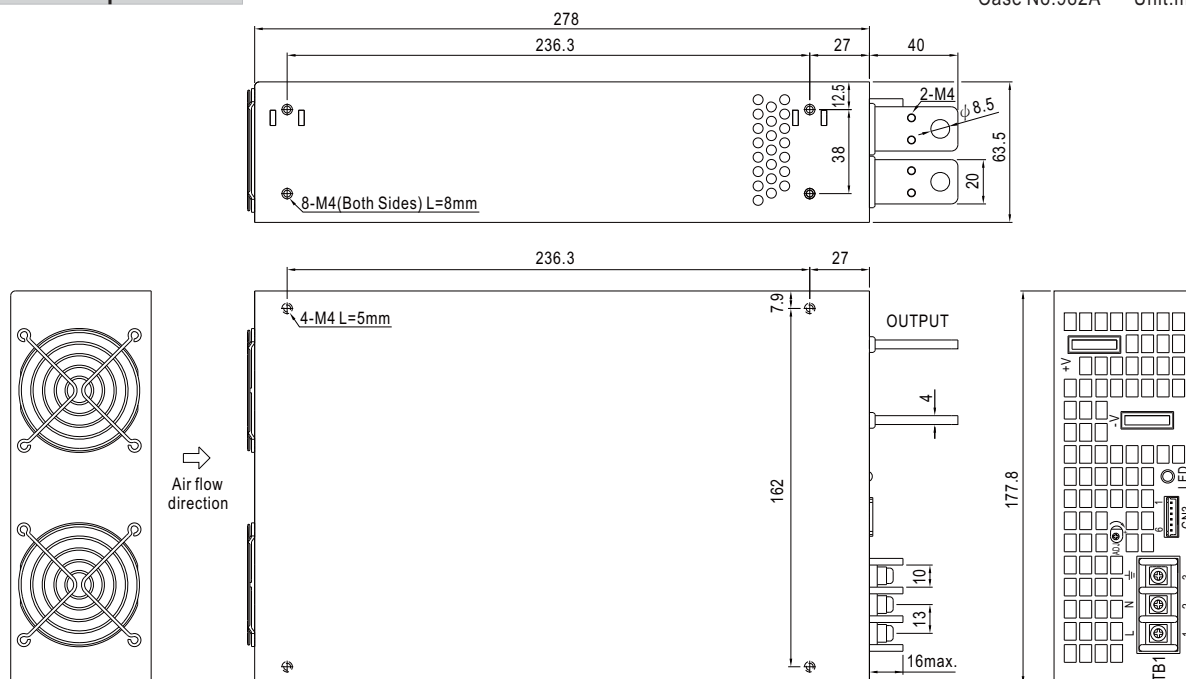
#### SPECIFICATION

MODEL		SE-1500-5	SE-1500-12	SE-1500-15	SE-1500-24	SE-1500-27	SE-1500-48
OUTPUT	DC VOLTAGE	5V	12V	15V	24V	27V	48V
	RATED CURRENT	300A	125A	100A	62.5A	55.6A	31.3A
	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.) <small>Note.2</small>	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 <small>Note.3</small>	± 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	150ms, 12ms / 230VAC at full load					
HOLD UP TIME (Typ.)	26ms / 230VAC at full load						
INPUT	VOLTAGE RANGE	180 ~ 264VAC	254 ~ 370VDC				
	FREQUENCY RANGE	47 ~ 63Hz					
	EFFICIENCY (Typ.)	81%	85%	85%	87%	88%	89%
	AC CURRENT (Typ.)	17.5A / 230VAC					
	INRUSH CURRENT (Typ.)	60A / 230VAC					
	LEAKAGE CURRENT	<3.5mA / 240VAC					
PROTECTION	OVERLOAD	105 ~ 125% rated output power Protection type : Shut down o/p voltage, re-power on to recover					
	OVER VOLTAGE	5.75 ~ 6.75V	14.5 ~ 16.2V	18 ~ 21V	27.6 ~ 32.4V	31 ~ 35V	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	DC_OK SIGNAL	PSU turn on:3.3V ~ 5.6V		PUS turn off:0 ~ 1V			
	REMOTE CONTROL	RC+/RC-: 0 ~ 0.8V power on; 4 ~ 10V power off					
ENVIRONMENT	WORKING TEMP.	-20 ~ +70℃ (Refer to "Derating Curve")					
	WORKING HUMIDITY	20 ~ 90% RH non-condensing					
	STORAGE TEMP., HUMIDITY	-40 ~ +85℃, 10 ~ 95% RH					
	TEMP. COEFFICIENT	± 0.05%/℃ (0 ~ 50℃)					
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes					
	SAFETY STANDARDS	UL62368-1, BSMI CNS14336-1, EAC TP TC 004 approved; Design refer to BS EN/EN62368-1					
SAFETY & EMC (Note 4)	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:1.5KVAC 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)			Class B	
		Radiated	BS EN/EN55032 (CISPR32)			Class A	
		Harmonic Current	BS EN/EN61000-3-2			-----	
		Voltage Flicker	BS EN/EN61000-3-3			-----	
	EMC IMMUNITY	BS EN/EN55024, 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 3	
		Surge	BS EN/EN61000-6-2			2KV/Line-Line 4KV/Line-Earth	
		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	333.3K hrs min. Telcordia SR-332 (Bellcore) ; 134.5K hrs min. MIL-HDBK-217F (25℃)					
	DIMENSION	278*177.8*63.5mm (L*W*H)					
	PACKING	3.3Kg; 4pcs/14.2Kg/1.14CUFT					

- 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:
    - 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>

## ■ Mechanical Specification

Case No.982A      Unit:mm



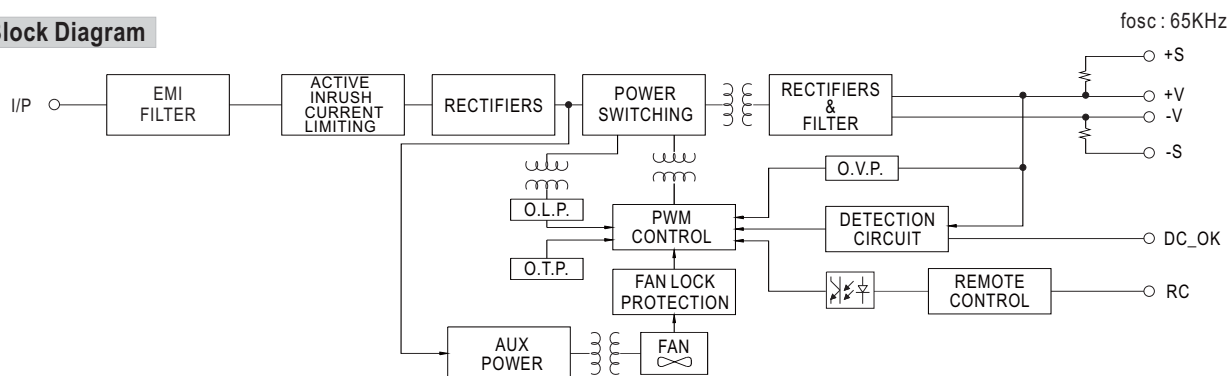
Terminal Pin No. Assignment :

Pin No.	Assignment
1	AC/L
2	AC/N
3	FG $\perp$

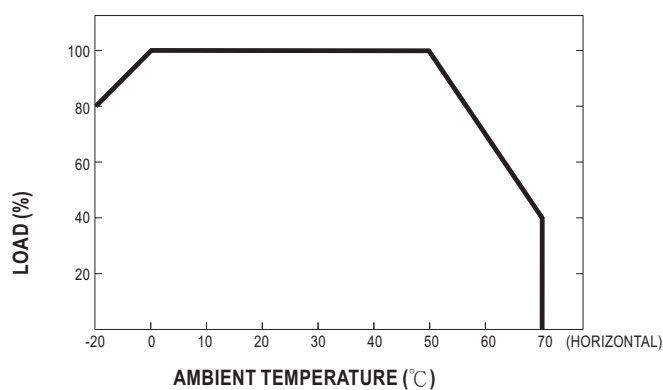
Control Pin (CN3) : JST B6B-XH or equivalent

Pin No.	Assignment	Pin No.	Assignment	Mating Housing	Terminal
1	DC_OK Signal	4	+S	JST XHP or equivalent	JST SXH-001T or equivalent
2	DC_OK GND	5	RC-		
3	-S	6	RC+		

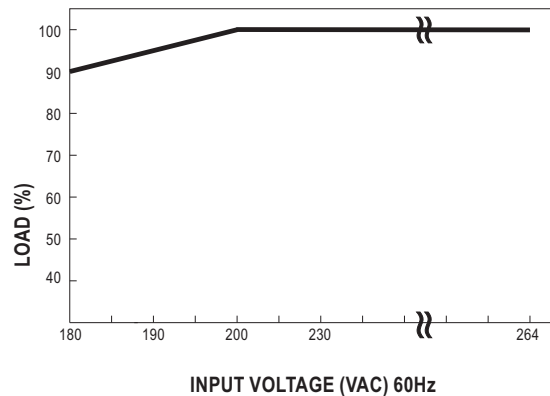
### ■ Block Diagram



### Derating Curve



### ■ Static Characteristics





# 1500W Single Output Power Supply

# SE-1500 series

## Function Description of CN3

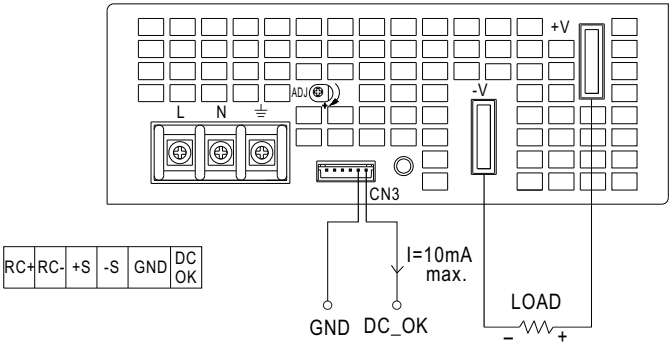
Pin No.	Function	Description
1	DC_OK	DC_OK signal is a TTL level signal, referenced to pin2(DC_OK GND). "High" when PSU turns on.
2	GND	This pin connects to the negative terminal (-V). Return for DC_OK signal output.
3	-S	Negative sensing. The -S signal should be connected to the negative terminal of the load. The -S and +S leads should be twisted in pair to minimize noise pick-up effect.
4	+S	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

DC\_OK Signal is a TTL level signal. "High" when PSU turns on.

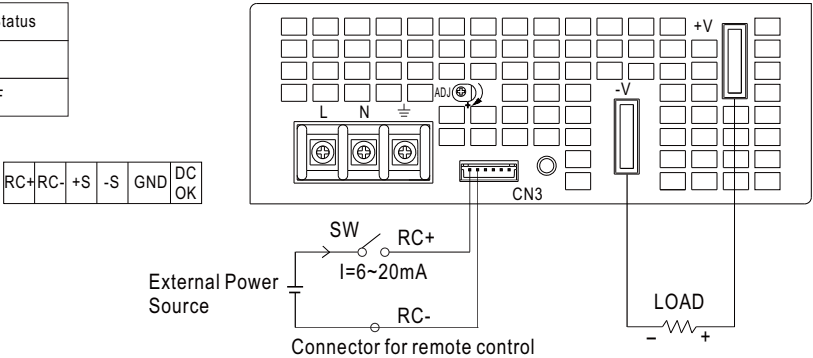
Between DC_OK(pin1) and GND(pin2)	Output Status
3.3 ~ 5.6V	ON
0 ~ 1V	OFF



### 2. Remote Control

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

Between RC+(pin6) and RC-(pin5)	Output Status
SW OFF (0 ~ 0.8V)	ON
SW ON (4 ~ 10V)	OFF



### 3. Remote Sense

