



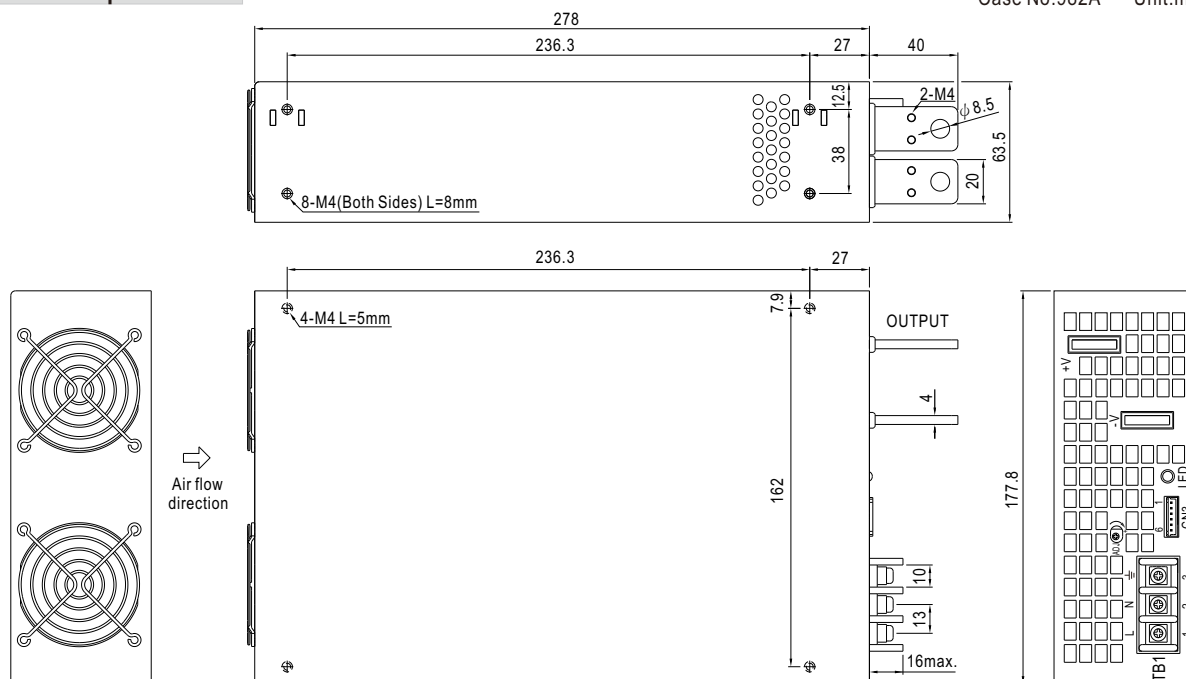
- Features :
- AC input 180 ~ 264VAC
  - AC input active surge current limiting
  - Protections: Short circuit / Overload / Over voltage / Over temperature
  - Forced air cooling by built-in DC ball bearing fan
  - High power density 7.8w/inch<sup>3</sup>
  - With DC OK signal output
  - Built-in remote ON-OFF control
  - Built-in remote sense function
  - UL / CUL approved
  - Low cost
  - 2 years warranty



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 & EMC (Note 4)	SAFETY STANDARDS	UL62368-1, BSMI CNS15598-1, 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												
	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),CNS15936						Class A					
		Radiated	BS EN/EN55032 (CISPR32),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 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	999.9K 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	<div>1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25℃ of ambient temperature.</div> <div>2. Ripple &amp; noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf &amp; 47uf parallel capacitor.</div> <div>3. Tolerance : includes set up tolerance, line regulation and load regulation.</div> <div>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 <a href="https://www.meanwell.com/Upload/PDF/EMI_statement_en.pdf">https://www.meanwell.com/Upload/PDF/EMI_statement_en.pdf</a>)</div> <div>5. 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).</div> <div>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</div> <div>※ Product Liability Disclaimer : For detailed information, please refer to <a href="https://www.meanwell.com/serviceDisclaimer.aspx">https://www.meanwell.com/serviceDisclaimer.aspx</a></div>													

## ■ Mechanical Specification

Case No.982A      Unit:mm



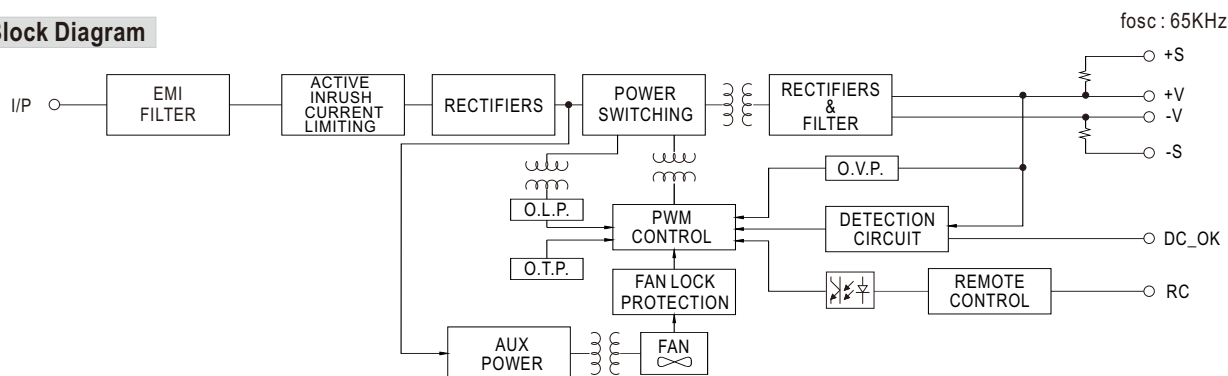
Terminal Pin No. Assignment :

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

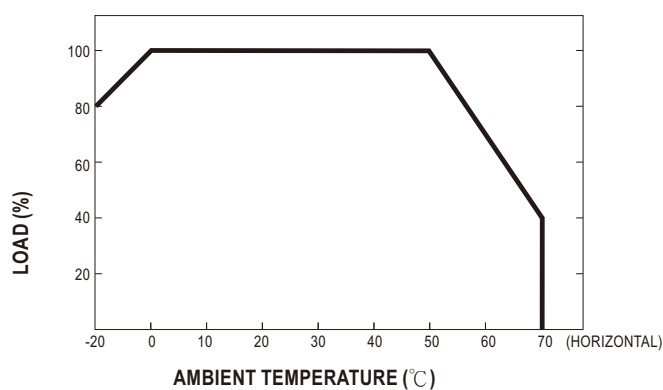
Control Pin (CN3) : JST B6B-XH or equivalent

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+		

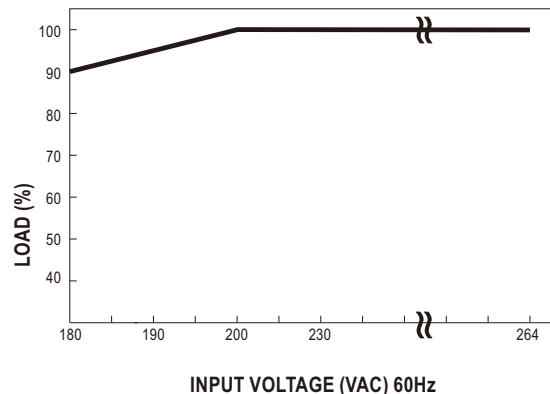
### ■ Block Diagram



### Derating Curve



## ■ Static Characteristics



## Function Description of CN3

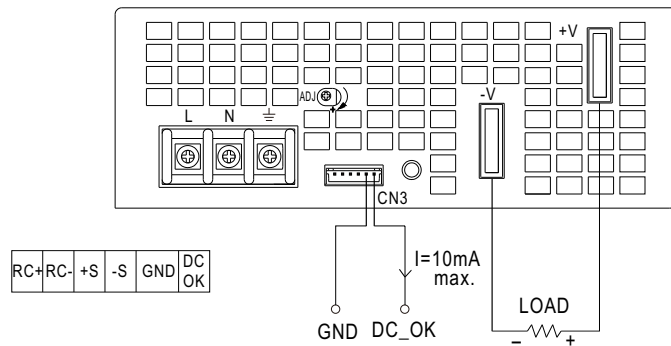
Pin No.	Function	Description
1	DC_OK	DC_OK signal is a TTL level signal, referenced to pin2(DC_OK GND). "High" when PSU turns on.
2	GND	This pin connects to the negative terminal (-V). Return for DC_OK signal output.
3	-S	Negative sensing. The -S signal should be connected to the negative terminal of 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.

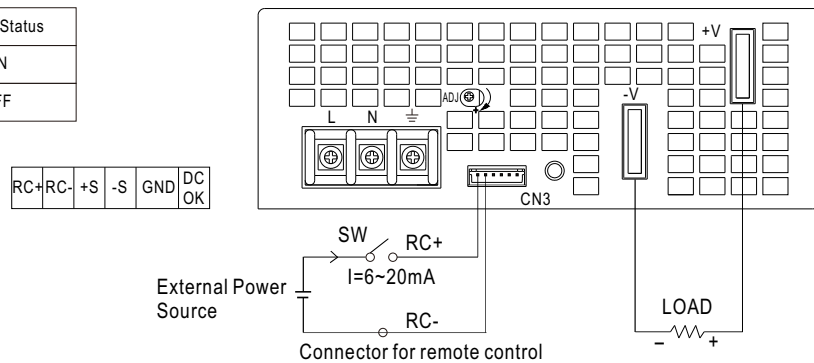
Between DC_OK(pin1) and GND(pin2)	Output Status
3.3 ~ 5.6V	ON
0 ~ 1V	OFF



### 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

