


**■ Features :**

- AC input active surge current limiting
- AC input range selected by switch
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Forced air cooling by built-in DC ball bearing fan
- High power density 7.3w/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

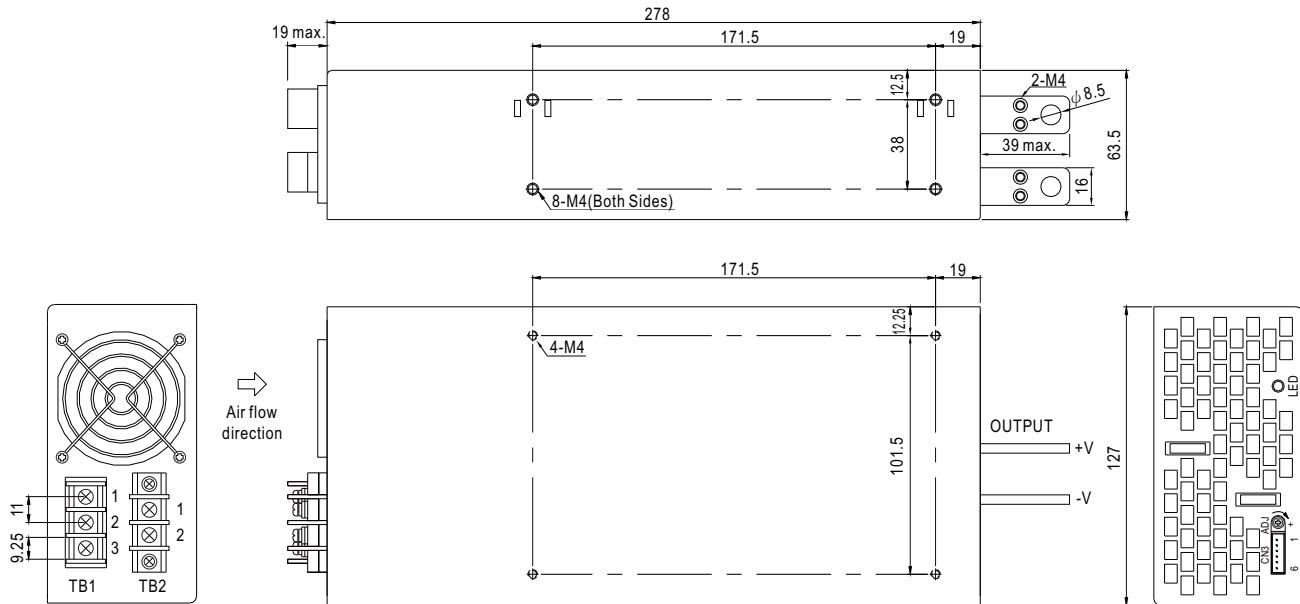
User's Manual


**SPECIFICATION**

MODEL	SE-1000-5	SE-1000-9	SE-1000-12	SE-1000-15	SE-1000-24	SE-1000-48			
OUTPUT	DC VOLTAGE	5V	9V	12V	15V	24V			
	RATED CURRENT	150A	100A	83.3A	66.7A	41.7A			
	CURRENT RANGE	0 ~ 150A	0 ~ 100A	0 ~ 83.3A	0 ~ 66.7A	0 ~ 41.7A			
	RATED POWER	750W	900W	999.6W	1000.5W	1000.8W			
	RIPPLE & NOISE (max.) Note.2	150mVp-p	150mVp-p	150mVp-p	150mVp-p	200mVp-p			
	VOLTAGE ADJ. RANGE	3.3 ~ 5.5V	7.5 ~ 10V	10 ~ 13.5V	13.5 ~ 16.5V	22 ~ 27.5V			
	VOLTAGE TOLERANCE Note.3	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%			
	LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%			
	LOAD REGULATION	±1.0%	±0.5%	±0.5%	±0.5%	±0.5%			
	SETUP, RISE TIME	1500ms, 50ms/230VAC	1500ms, 50ms/115VAC at full load						
INPUT	HOLD UP TIME (Typ.)	20ms/230VAC	15ms/115VAC at full load						
	VOLTAGE RANGE	90 ~ 132VAC / 180 ~ 264VAC selected by TB2	254 ~ 370VDC						
	FREQUENCY RANGE	47 ~ 63Hz							
	EFFICIENCY (Typ.)	81%	84%	85%	86%	88%			
	AC CURRENT (Typ.)	17.5A/115VAC	10A/230VAC						
PROTECTION	INRUSH CURRENT (Typ.)	35A/115VAC	55A/230VAC						
	LEAKAGE CURRENT	<2.5mA / 240VAC							
	OVERLOAD	105 ~ 125% rated output power							
FUNCTION		Protection type : Shut down o/p voltage, re-power on to recover							
	OVER VOLTAGE	5.75 ~ 6.75V	10.4 ~ 12.2V	13.8 ~ 16.2V	18 ~ 21V	28 ~ 32.4V			
	OVER TEMPERATURE	Protection type : Shut down o/p voltage, re-power on to recover							
ENVIRONMENT	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							
SAFETY & EMC (Note 4)	WORKING TEMP.	-20 ~ +60°C (Refer to "Derating Curve")							
	WORKING HUMIDITY	20 ~ 90% RH non-condensing							
	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH							
	TEMP. COEFFICIENT	±0.05%/°C (0 ~ 50°C)							
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes							
SAFETY & EMC (Note 4)	SAFETY STANDARDS	UL62368-1, BSMI CNS14336-1, EAC TP TC 004 approved; Design refer to BS EN/EN62368-1							
	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°C / 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	----					
	EMC IMMUNITY	Voltage Flicker	BS EN/EN61000-3-3	----					
		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					
OTHERS	Conducted	BS EN/EN61000-4-6	Level 3						
	Magnetic Field	BS EN/EN61000-4-8	Level 4						
NOTE	Voltage Dips and Interruptions	BS EN/EN61000-4-11	>95% dip 0.5 periods, 30% dip 25 periods, >95% interruptions 250 periods						
	MTBF	424.5K hrs min. Telcordia SR-332 (Bellcore) ; 251.6K hrs min. MIL-HDBK-217F (25°C)							
	DIMENSION	278*127*63.5mm (L*W*H)							
	PACKING	2.5Kg; 6pcs/16Kg/1.38CUFT							
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 <a href="http://www.meanwell.com">http://www.meanwell.com</a> ) 5. By using UVP circuit, PSU will not turn on direct by in AC continue ON/OFF condition within 5 sec. 6. 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). 7. 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 <a href="https://www.meanwell.com/serviceDisclaimer.aspx">https://www.meanwell.com/serviceDisclaimer.aspx</a>									

## ■ Mechanical Specification

Case No. 935B Unit:mm



### TB1:AC input terminal

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

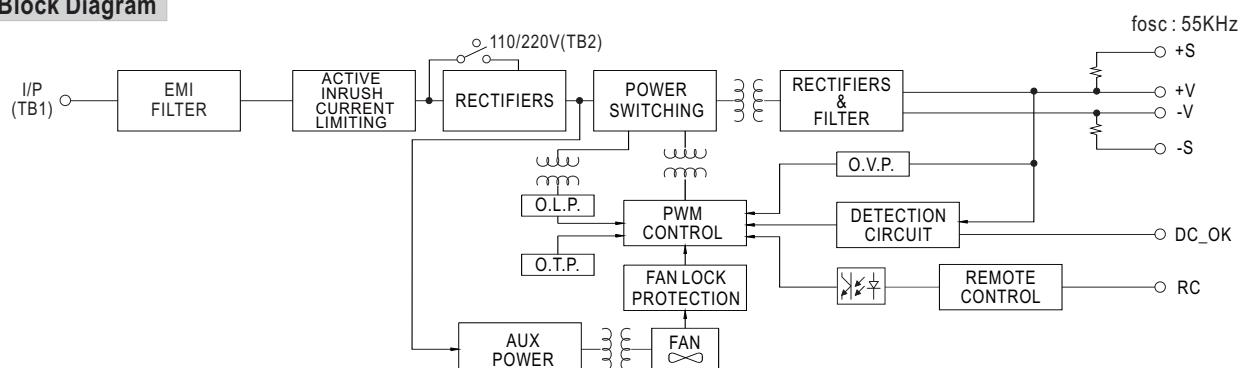
TB2:110/220V Change

Pin No.	110V	220V
1	Short	Open
2		

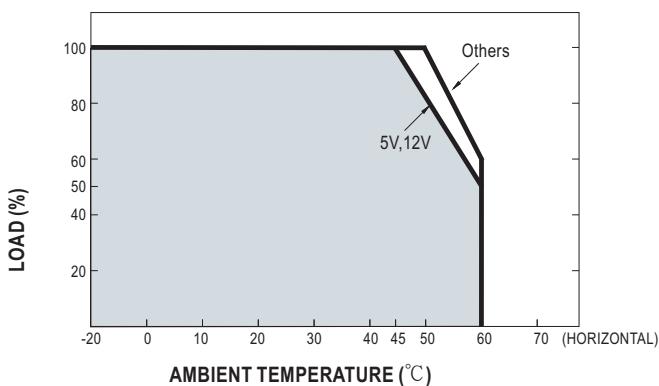
Control Pin (CN3) : JST B6B-XH or equivalent

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+		

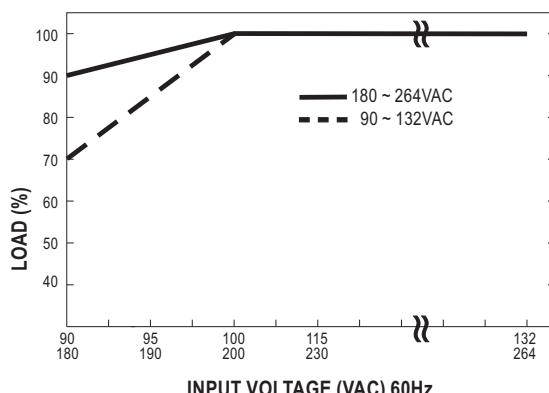
## ■ Block Diagram



## ■ Derating Curve



## ■ Static Characteristics





1000W Single Output Power Supply

SE-1000 series

### ■ Mechanical Specification

#### DC\_OK Signal

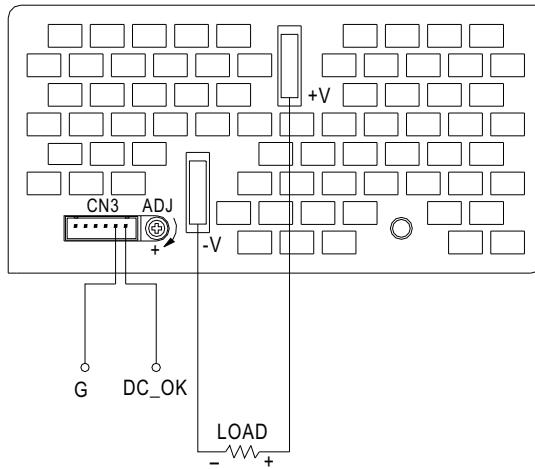
DC\_OK Signal is the voltage difference between "DC\_OK" and "G" pin output

DC\_OK Signal is a TTL level signal

PSU turn on: 3.3 ~ 5.6V

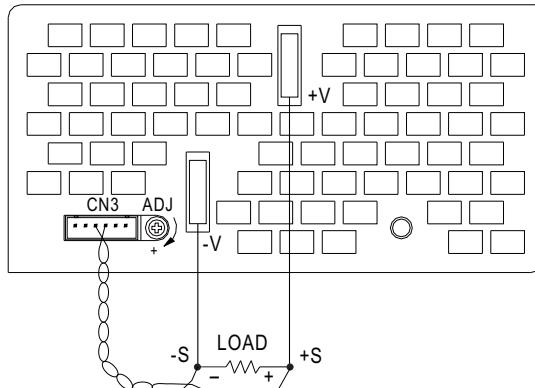
PSU turn off: 0 ~ 1V

RC+	RC-	+S	-S	G	DC OK
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#### Remote Sensing

RC+	RC-	+S	-S	G	DC OK
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#### Remote Control

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

RC+	RC-	+S	-S	G	DC OK
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External Power Source

SW

I=6~20mA

RC+

RC-

Connector for remote Control

