



SD-1000 series



■ Features :

- 1U low profile 41mm
- High power density 10.7w/inch³
- 2000VAC I/O Isolation
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Output OK signal
- * Built-in remote ON-OFF control
- Built-in remote sense function
- Forced air cooling by built-in DC fan with fan speed control
- 12V, 0.25A auxiliary output
- 3 years warranty

SPECIFICATION

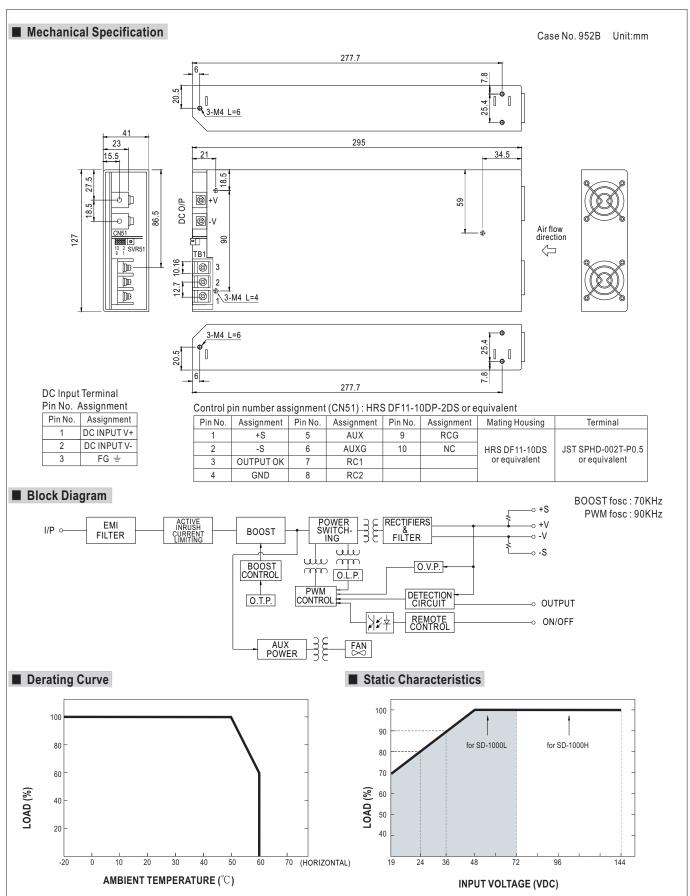
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MODEL		SD-1000L-12	SD-1000L-24	SD-1000L-48	SD-1000H-12	SD-1000H-24	SD-1000H-48	
	DC VOLTAGE	12V	24V	48V	12V	24V	48V	
ОИТРИТ	RATED CURRENT	60A	40A	21A	60A	40A	21A	
	CURRENT RANGE	0 ~ 60A	0 ~ 40A	0 ~ 21A	0 ~ 60A	0 ~ 40A	0~21A	
	RATED POWER	720W	960W	1008W	720W	960W	1008W	
	RIPPLE & NOISE (max.) Note.2	150mVp-p	150mVp-p	150mVp-p	150mVp-p	150mVp-p	150mVp-p	
	VOLTAGE ADJ. RANGE	11 ~ 15V	23 ~ 30V	46 ~ 60V	11 ~ 15V	23 ~ 30V	46 ~ 60V	
	VOLTAGE TOLERANCE Note.3	±1.0%	±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	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	
	SETUP, RISE TIME	500ms, 50ms at full load						
	VOLTAGE RANGE Note.5	19 ~ 72VDC			72 ~ 144VDC			
INDUT	EFFICIENCY (Typ.)	84%	88%	90%	85%	89%	92%	
INPUT	DC CURRENT (Typ.)	23.5A/48VDC 11.6A/96VDC						
	INRUSH CURRENT (Typ.)		100A/96VDC					
	AV.	105 ~ 125% rated output power						
	OVERLOAD	Protection type: Constant current limiting, unit will shut down o/p voltage after about 5sec. Re-power on to recover						
PROTECTION	OVED VOLTAGE	16 ~ 19V	30.8 ~ 35.2V	62 ~ 68V	16 ~ 19V	30.8 ~ 35.2V	62 ~ 68V	
	OVER VOLTAGE	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	REMOTE ON/OFF CONTROL	Please refer to function manual						
1 011011011	OUTPUT OK SIGNAL	Open collector signal low when PSU turns on, maximum, sink current :10mA						
	WORKING TEMP.	-20 ~ +60 °C (Refer to "Derating Curve")						
	WORKING HUMIDITY	20 ~ 90% RH non-condensing						
ENVIRONMENT	STORAGE TEMP., HUMIDITY	$-40 \sim +85^{\circ}\text{C}$, $10 \sim 95\%$ RH non-condensing						
	TEMP. COEFFICIENT	$\pm 0.02\%$ /°C (0 ~ 50°C)						
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes						
	SAFETY STANDARDS	IEC60950-1 CB approved by TUV						
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:2KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC						
EMC	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH						
(Note 4)	EMC EMISSION	Compliance to EN55032 (CISPR32)						
EMC IMMUNITY Compliance to EN61000-4-2,3,4,6,8, light industry level, criteria A								
	MTBF	106.7K hrs min. MIL-HDBK-217F (25°C)						
OTHERS	DIMENSION	295*127*41mm (L*W*H)						
	PACKING	1.94Kg; 6pcs/12.6Kg		Signet rated lead or	ad OE°C of ambient to	ma a rati wa		
NOTE	Ripple & noise are measure Tolerance: includes set up	ally mentioned are measured at 48, 96VDC input, rated load and 25°C of ambient temperature. ed at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. tolerance, line regulation and load regulation.						
	a 720mm*360mm metal pla perform these EMC tests, p	lower 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 mm*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 meet the tests, please refer to "EMI testing of component power supplies." (as available on http://www.meanwell.com) ing may be needed under low input voltages. Please check the derating curve for more details.						





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■ Function Description of CN51

Pin No.	Function	Description
1		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. The maximum line drop compensation is 0.5V.
2		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. The maximum line drop compensation is 0.5V.
3		Open collector signal, referenced to pin4(GND). Low when PSU turns on. The maximum sink current is 10mA and the maximum external voltage is 13V.
4	GND	These pins connect to the negative terminal (-V).
5	AUX	Auxiliary voltage output, 10.8~13.2V referenced to pin6(AUXG).The maximum load current is 0.25A.
6	AUXG	Auxiliary voltage output ground. The signal return is isolated from the output terminals(+V & -V).
7	RC1	Remote ON/OFF
8	RC2	Remote ON/OFF
9	RCG	Remote ON/OFF ground
10	NC	No connection

■ Function Manual

1.Remote ON/OFF

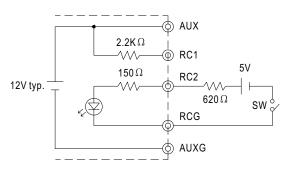
- (1)Remote ON/OFF control becomes available by applying voltage in CN51
- (2) Table 1.1 shows the specification of Remote ON/OFF function
- (3)Fig.1.2 shows the example to connect Remote ON/OFF control function

Table 1.1 Specification of Remote ON/OFF

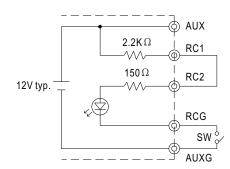
Connection Method		Fig. 1.2(A)	Fig. 1.2(B)	Fig. 1.2(C)
SW Logic	Output on	SW Open	SW Open	SW Close
SW Logic	Output off	SW Close	SW Close	SW Open

Fig.1.2 Examples of connecting remote ON/OFF

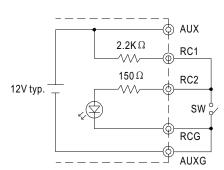
(A)Using external voltage source



(B)Using internal 12V auxiliary output



(C)Using internal 12V auxiliary output





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2.Output OK signal

"Output OK" is an open collector signal.

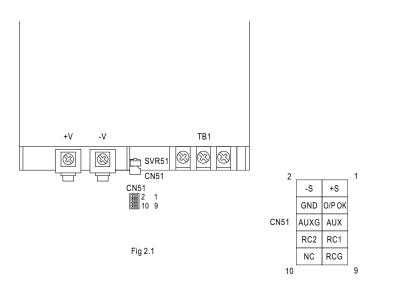
It indicates the output status of the PSU. It can operate in two ways: One is sinking current from external signal; the other is sending out a voltage signal.

2-1 Sink current:

The maximum sink current is 10mA and the maximum external voltage is 13V.

2-2 Voltage signal:

Between O/P OK(pin3) and GND(pin4)	Output Status
0 ~ 0.5V	ON
12~13V	OFF



3.Remote Sense

The remote sensing compensates voltage drop on the load wiring up to 0.5V.

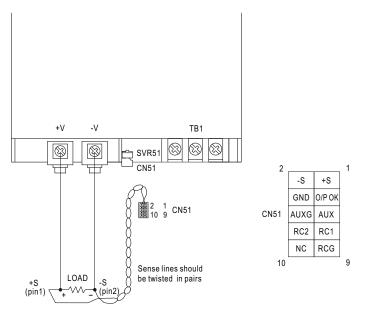


Fig 3.1



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