



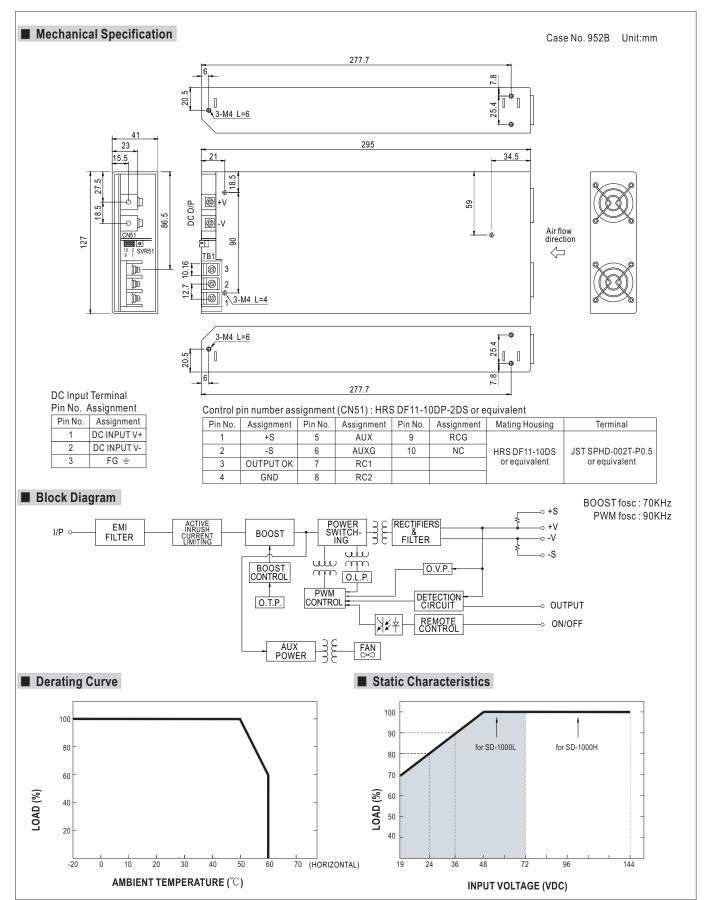
■ Features :

- 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

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SPECIFICATION MODEL SD-1000L-24 SD-1000L-48 SD-1000H-12 SD-1000L-12 SD-1000H-24 SD-1000H-48 DC VOLTAGE 12V 24V 48V 12V 24V 48V 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 **OUTPUT** VOLTAGE ADJ. RANGE 11 ~ 15V 23 ~ 30V 46 ~ 60V 11 ~ 15V 23 ~ 30V 46 ~ 60V **VOLTAGE TOLERANCE Note.3** $\pm 1.0\%$ ±1.0% ±1.0% ±1.0% ±1.0% $\pm 1.0\%$ LINE REGULATION $\pm 0.5\%$ $\pm 0.5\%$ ±0.5% $\pm 0.5\%$ $\pm 0.5\%$ ±0.5% LOAD REGULATION $\pm 0.5\%$ $\pm 0.5\%$ $\pm 0.5\%$ $\pm 0.5\%$ $\pm 0.5\%$ $\pm 0.5\%$ SETUP. RISE TIME 500ms, 50ms at full load 72 ~ 144VDC Note.5 19 ~ 72VDC **VOLTAGE RANGE** 85% 89% **EFFICIENCY (Typ.)** 88% 90% 92% 84% INPLIT DC CURRENT (Typ.) 23.5A/48VDC 11.6A/96VDC INRUSH CURRENT (Typ.) 100A/96VDC 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 30.8 ~ 35.2V 30.8 ~ 35.2V 62 ~ 68V **OVER VOLTAGE** Protection type: Shut down o/p voltage, re-power on to recover Shut down o/p voltage, recovers automatically after temperature goes down **OVER TEMPERATURE** Please refer to function manual **REMOTE ON/OFF CONTROL FUNCTION OUTPUT OK SIGNAL** Open collector signal low when PSU turns on, maximum, sink current:10mA -20 ~ +60°C (Refer to "Derating Curve") WORKING TEMP. 20 ~ 90% RH non-condensing **WORKING HUMIDITY** ENVIRONMENT $-40 \sim +85^{\circ}$ C, $10 \sim 95\%$ RH non-condensing STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT ±0.02%/°C (0 ~ 50°C) VIBRATION 10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes SAFETY STANDARDS IEC62368-1 CB approved by TUV, AS/NZS62368.1, EAC TP TC 004 approved; Meet BS EN/EN62368-1 WITHSTAND VOLTAGE I/P-O/P:2KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC **SAFETY &** I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH ISOLATION RESISTANCE EMC Compliance to BS EN/EN55032 (CISPR32), EAC TP TC 020 (Note 4) **EMC EMISSION EMC IMMUNITY** Compliance to BS EN/EN61000-4-2,3,4,6,8, light industry level, criteria A, EAC TP TC 020 MTBF 106 7K hrs min MIL-HDBK-217F (25°C) OTHERS **DIMENSION** 295*127*41mm (L*W*H) 1.94Kg; 6pcs/12.6Kg/1.15CUFT **PACKING** 1. All parameters NOT specially mentioned are measured at 48, 96VDC input, rated load and 25°C of ambient temperature. NOTE 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. Derating may be needed under low input voltages. Please check the derating curve for more details. 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). ※ Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx







■ 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	-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. The maximum line drop compensation is 0.5V.		
3	O/P OK	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

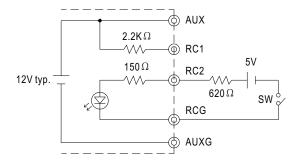
- (1)Remote ON/OFF control becomes available by applying voltage in CN51
- (2) Table 1.1 shows the specification of Remote ON/OFF function
- (3)Fig.1.2 shows the example to connect Remote ON/OFF control function

Table 1.1 Specification of Remote ON/OFF

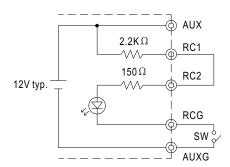
Connec	tion Method	Fig. 1.2(A)	Fig. 1.2(B)	Fig. 1.2(C)
SW Logic	Output on	SW Open	SW Open	SW Close
SW Logic	Output off	SW Close	SW Close	SW Open

Fig.1.2 Examples of connecting remote ON/OFF

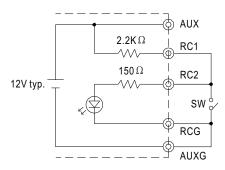
(A)Using external voltage source



(B)Using internal 12V auxiliary output



(C)Using internal 12V auxiliary output





2.Output OK signal

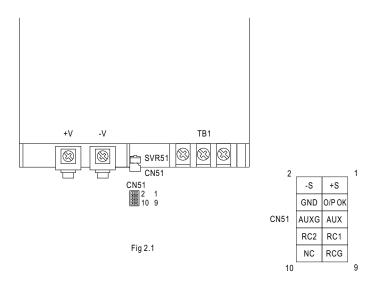
"Output OK" is an open collector signal.
It indicates the output status of the PSU. It can operate in two ways: One is sinking current from external signal; the other is sending out a voltage signal.

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.

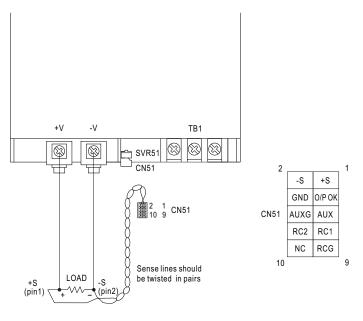


Fig 3.1