



#### ■ Features :

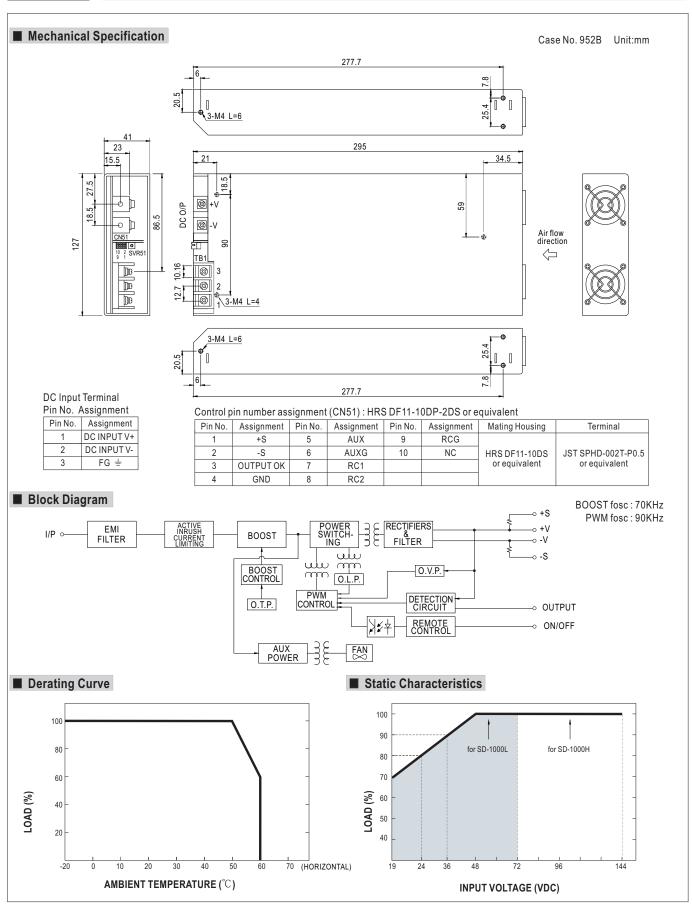
- 1U low profile 41mm
- High power density 10.7w/inch<sup>3</sup>
- 2000VAC I/O Isolation
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Output OK signal
- \* Built-in remote ON-OFF control
- Built-in remote sense function
- Forced air cooling by built-in DC fan with fan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

## **SPECIFICATION**

# EHI CB C€

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					
	EFFICIENCY (Typ.)	84%	88%	90%	85%	89%	92%
INPUT	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		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					
	REMOTE ON/OFF CONTROL	Please refer to function manual					
FUNCTION	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 ~ +85°C, 10 ~ 95% RH non-condensing					
	TEMP. COEFFICIENT	±0.02%/°C (0~50°C)					
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes					
	SAFETY STANDARDS	IEC60950-1 CB, EAC TP TC 004 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), EAC TP TC 020					
	EMC IMMUNITY	Compliance to 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)					
	PACKING	1.94Kg; 6pcs/12.6Kg	j/1.15CUFT				
NOTE	Ripple & noise are measure     Tolerance : includes set up     The power supply is conside a 720mm*360mm metal playerform these EMC tests, p     Derating may be needed ur	ally mentioned are measured at 48, 96VDC input, rated load and 25°C of ambient temperature.  red 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.  dered a component which will be installed into a final equipment. All the EMC tests are been executed by mounting the unit on late with 1mm of thickness. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how to please refer to "EMI testing of component power supplies." (as available on http://www.meanwell.com)  under low input voltages. Please check the derating curve for more details.  derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft).					







# ■ 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	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

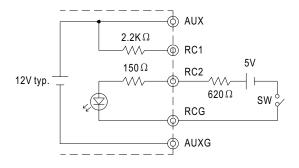
- (1)Remote ON/OFF control becomes available by applying voltage in CN51
- (2) Table 1.1 shows the specification of Remote ON/OFF function
- (3)Fig.1.2 shows the example to connect Remote ON/OFF control function

Table 1.1 Specification of Remote ON/OFF

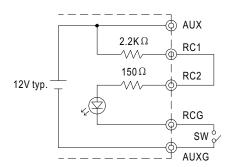
Connection Method		Fig. 1.2(A)	Fig. 1.2(B)	Fig. 1.2(C)
CW/Logio	Output on	SW Open	SW Open	SW Close
SW Logic	Output off	SW Close	SW Close	SW Open

Fig.1.2 Examples of connecting remote ON/OFF

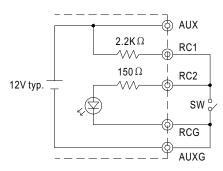
## (A)Using external voltage source



## (B)Using internal 12V auxiliary output



#### (C)Using internal 12V auxiliary output





## 2.Output OK signal

"Output OK" is an open collector signal.

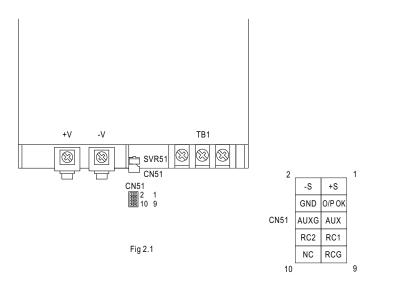
It indicates the output status of the PSU. It can operate in two ways: One is sinking current from external signal; the other is sending out a voltage signal.

#### 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.

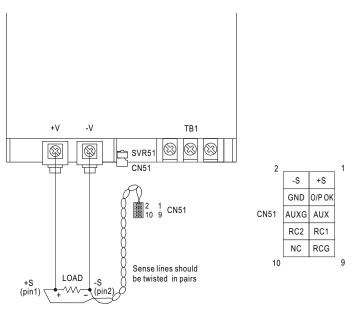


Fig 3.1