



Features:

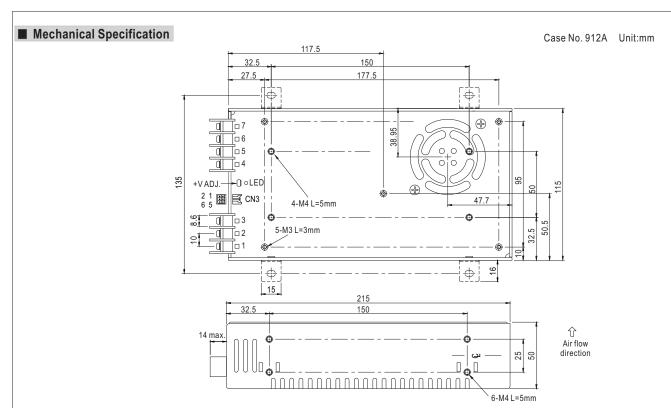
- DC input active surge current limiting
- Wide 4:1~2:1 DC input range (24V: 19~72VDC, 96V:72~144VDC)
- Protections: Short circuit / Overload / Over voltage / Over temperature / Input polarity(by fuse)
- 2000VAC I/O Isolation
- Forced air cooling by built-in DC fan with fan speed control function
- Output OK Signal
- Built-in remote ON-OFF control
- Built-in remote sense function
- 3 years warranty

SPECIFICATION

CB (€

MODEL		SD-500L-12	SD-500L-24	SD-500L-48	SD-500H-12	SD-500H-24	SD-500H-48
	DC VOLTAGE	12V	24V	48V	12V	24V	48V
	RATED CURRENT	40A	21A	10.5A	40A	21A	10.5A
	CURRENT RANGE	0 ~ 40A	0 ~ 21A	0 ~ 10.5A	0 ~ 40A	0 ~ 21A	0 ~ 10.5A
	RATED POWER	480W	504W	504W	480W	504W	504W
	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	±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 lo	pad	1			
	VOLTAGE RANGE Note.5	19 ~ 72VDC			72 ~ 144VDC		
	EFFICIENCY (Typ.)	86%	88%	89%	87%	89%	90%
INPUT	DC CURRENT (Typ.)	24.2A/19VDC 24.8	A/24VDC 12A/48VI	DC	8A/72VDC 6A/96V	/DC	
	CURRENT (AT NO LOAD)	Max. 0.2A/48VDC			Max. 0.1A/96VDC		
	INRUSH CURRENT (Typ.)	60A/48VDC			60A/96VDC		
		105 ~ 125% rated output power					
	OVERLOAD	Protection type: Constant current limiting, shut down o/p voltage after about 5 sec., 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					
FUNCTION	REMOTE ON/OFF CONTROL	Please refer to function manual					
FUNCTION	OUTPUT OK SIGNAL	Open collector signal low when PSU turns on, max. 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					
	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 app	roved by TUV				
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:2KVAC I/P	-FG:2KVAC O/P-F0	G:0.5KVAC			
EMC	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-	FG:100M Ohms / 500	VDC / 25°C / 70% RH			
(Note 4)	EMC EMISSION	Compliance to EN55	022 (CISPR22) Class	В			
	EMC IMMUNITY	Compliance to EN61	000-4-2,3,4,6,8, light	industry level, criteria	A		
	MTBF	196.3K hrs min. MIL-HDBK-217F (25°C)					
OTHERS	DIMENSION	215*115*50mm (L*W*H)					
	PACKING	1.15Kg; 12pcs/14.8K	-				
NOTE	Ripple & noise are measure Tolerance : includes set up The power supply is consid a 360mm*360mm metal pla perform these EMC tests, p	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. to 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 ate 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) inder low input voltages. Please check the derating curve for more details.					



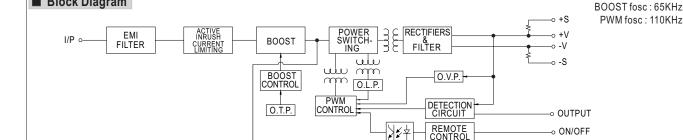


DC Input Terminal Pin No. Assignment

Pin No.	Assignment	Pin No.	Assignment
1	DC INPUT V+	4,5	-V
2	DC INPUT V-	6,7	+V
3	FG ±		

Control Pin No. Assignment (CN3): HRS DF11-6DP-2DS or equivalent

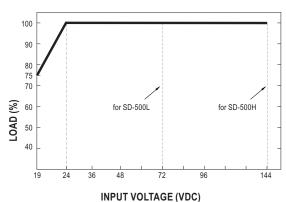
Pin No.	Assignment	Pin No.	Assignment	Mating Housing	Terminal
1	+S	4	GND	UD0 DE44 0D0	ICT COUD COST DO 5
2	-S	5	RC	HRS DF11-6DS or equivalent	JST SPHD-002T-P0.5 or equivalent
3	OUTPUT OK	6	RCG	or oquiraioni	or oquiraioni





■ Block Diagram

■ Static Characteristics





■ Function Description of CN3

Pin No.	Function	Description
1	+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. The maximum line drop compensation is 0.5V.
2	-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. The maximum line drop compensation is 0.5V.
3	O/P OK	Open collector signal, reference 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	RC	Remote ON/OFF
6	RCG	Remote ON/OFF ground

■ Function Manual

1.Remote ON/OFF

(1)Remote ON/OFF control becomes available by applying voltage in CN3

(2) Table 1.1 shows the specification of Remote ON/OFF function

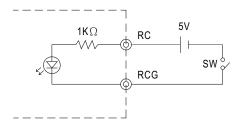
(3)Fig.1.2 shows the example to connect Remote ON/OFF control function

Table 1.1 Specification of Remote ON/OFF

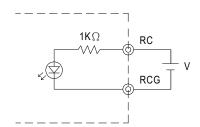
Connection Method	Fig. 1.2(A)	Fig. 1.2(B)
Output on	SW Open	V=0~0.8Vdc
Output off	SW Close	V=4~10Vdc

Fig.1.2 Examples of connecting remote ON/OFF

(A)Using external voltage source



(B)Using external voltage source



2.Output OK signal

"Output OK" is an open collector signal.

It indicates the output status of the PSU. It can operate

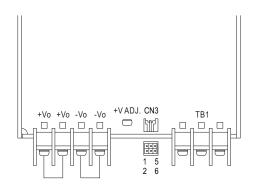
in two ways : One is sinking current from external signal ;

the other is sending out a voltage signal.

2-1 Sink current:

2-2 Voltage signal:

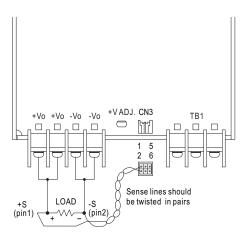
Between O/P OK(pin3) and GND(pin4)	Output Status
0 ~ 0.5V	ON
12~13V	OFF





3.Remote Sense

The remote sensing compensates voltage drop on the load wiring up to 0.5 V. $\label{eq:compensates} % \begin{array}{c} \text{The remote sensing compensates voltage drop on the} \\ \text{The remote sensing compensates voltage drop on the} \\ \text{The remote sensing compensates voltage drop on the} \\ \text{The remote sensing compensates voltage drop on the} \\ \text{The remote sensing compensates voltage drop on the} \\ \text{The remote sensing compensates voltage drop on the} \\ \text{The remote sensing compensates voltage drop on the} \\ \text{The remote sensing compensates voltage drop on the} \\ \text{The remote sensing compensates voltage drop on the} \\ \text{The remote sensing compensates voltage drop on the} \\ \text{The remote sensing compensates voltage drop on the} \\ \text{The remote sensing compensates drop of the remote sensitive drop of the$



1	CN3	5
+\$	O/P OK	RC
-S	GND	RCG
2		6