



■ Features :

- High efficiency 91% and low power dissipation
- 150% peak load capability
- Built-in active PFC function, PF>0.93
- Protections: Short circuit / Overload / Over voltage / Over temperature
- · Cooling by free air convection
- Can be installed on DIN rail TS-35/7.5 or 15
- UL 508 (industrial control equipment) approved
- EN61000-6-2(EN50082-2) industrial immunity level
- Built-in DC OK relay contact
- 100% full load burn-in test
- 3 years warranty









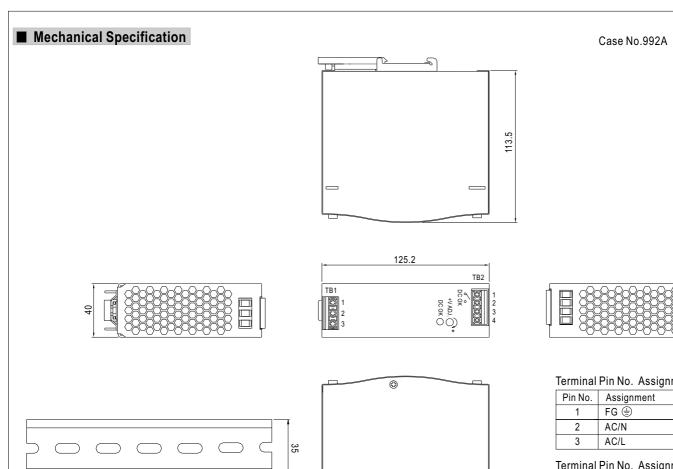
SPECIFICATION

MODEL		SDR-120-12	SDR-120-24	SDR-120-48	
	DC VOLTAGE	12V	24V	48V	
	RATED CURRENT	10A	5A	2.5A	
	CURRENT RANGE	0 ~ 10A	0 ~ 5A	0 ~ 2.5A	
	RATED POWER	120W	120W	120W	
	PEAK CURRENT	15A	7.5A	3.75A	
	PEAK POWER Note.6	180W (3 sec.)			
OUTPUT	RIPPLE & NOISE (max.) Note.2	100mVp-p	100mVp-p	120mVp-p	
	VOLTAGE ADJ. RANGE	12 ~ 14V	24 ~ 28V	48 ~ 55V	
	VOLTAGE TOLERANCE Note.3	±1.0%	±1.0%	±1.0%	
	LINE REGULATION	±0.5%	±0.5%	±0.5%	
	LOAD REGULATION	±1.0%	±1.0%	±1.0%	
	SETUP, RISE TIME	1500ms, 60ms/230VAC 3000ms, 60ms/115VAC at full load			
	HOLD UP TIME (Typ.)	20ms/230VAC 20ms/115VAC at full load			
	, , , ,	88 ~ 264VAC 124 ~ 370VDC			
	FREQUENCY RANGE	47 ~ 63Hz			
	POWER FACTOR (Typ.)	0.93/230VAC 0.96/115VAC at full load			
NPUT	EFFICIENCY (Typ.)	89%	91%	90.5%	
01	AC CURRENT (Typ.)	1.4A/115VAC 0.7A/230VAC			
	INRUSH CURRENT (Typ.)	35A/115VAC 70A/230VAC			
	LEAKAGE CURRENT	<1mA / 240VAC			
		Normally works within 110 ~ 150% rated ou	utput power for more than 3 seconds and the	n shut down o/p voltage	
	OVERLOAD	>150% rated power, constant current limiting with auto-recovery within 3 seconds and shut down o/p voltage after 3 seconds			
	OVER VOLTAGE	14 ~ 17V	29 ~ 33V	56 ~ 65V	
PROTECTION		Protection type: Shut down o/p voltage, re	-power on to recover		
	OVER TEMPERATURE	95°C ±5°C (TSW: detect on heatsink of power switch)			
		Protection type: Shut down o/p voltage, recovers automatically after temperature goes down			
FUNCTION	DC OK REALY CONTACT RATINGS (max.)				
ENVIRONMENT	WORKING TEMP.	-25 ~ +70°C (Refer to "Derating Curve")			
	WORKING HUMIDITY	20 ~ 95% RH non-condensing			
	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH			
	TEMP. COEFFICIENT	±0.03%°C (0~50°C)			
	VIBRATION	Component:10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes; Mounting: Compliance to IEC60068-2-6			
	SAFETY STANDARDS	UL508, TUV EN60950-1 approved			
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC O/P-DC OK:0.5KVAC			
SAFETY &	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:>100M Ohms / 500VDC / 25°C / 70% RH			
EMC (Note 4)	EMC EMISSION	Compliance to EN55022 (CISPR22) Class B, EN61000-3-2,-3			
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, EN61000-6-2 (EN50082-2), EN61204-3, heavy industry level, criteria A, SEMI F47, GL approved			
	MTBF	289.9Khrs min. MIL-HDBK-217F (25°C)			
OTHERS	DIMENSION	40*125.2*113.5mm (W*H*D)			
	PACKING	0.67Kg; 20pcs/14.4Kg/1.16CUFT			
		J. J.			

- 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. The final equipment must be re-confirmed that it still meets
- 5. Installation clearances: 40mm on top, 20mm on the bottom, 5mm on the left and right side are recommended when loaded permanently with full power. In case the adjacent device is a heat source, 15mm clearance is recommended.
- 6. 3 seconds max., please refer to peak loading curves.
- 7. Derating may be needed under low input voltage. Please check the derating curve for more details.

Unit:mm





Terminal Pin No. Assignment (TB1)

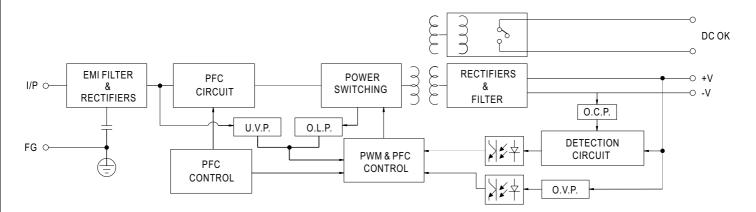
Pin No.	Assignment
1	FG 🖶
2	AC/N
3	AC/L

Terminal Pin No. Assignment (TB2)

Pin No.	Assignment
1,2	Relay Contact
3	DC OUTPUT -V
4	DC OUTPUT+V

■ Block Diagram

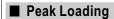
ADMISSIBLE DIN-RAIL:TS35/7.5 OR TS35/15

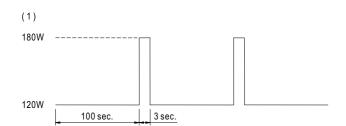


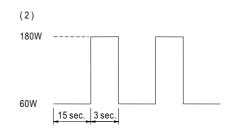
■ DC OK Relay Contact

Contact Close	PSU turns on / DC OK.
Contact Open	PSU turns off / DC Fail.
Contact Ratings (max.)	30V/1A resistive load.

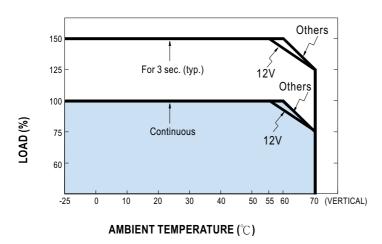








■ Derating Curve



■ Output derating VS input voltage

