SDR-120 Din Rail Power Supply



Size：40*125.2*113.5mm

Features:

- Universal AC input/Full range
- Protections: Short circuit/Overload
- Cooling by free air convection
- Built-in EMI filter with minimal Bellows
- Power Protection Level : IP31
- 100% full load burn-in test
- Comply with EN55022:2010+AC：2010+AC：2011/EN61000-3-2 and EN61000-4-2,3,4,5,6,8,11/EN60950-1
- 2 years warranty

SPECIFICATION

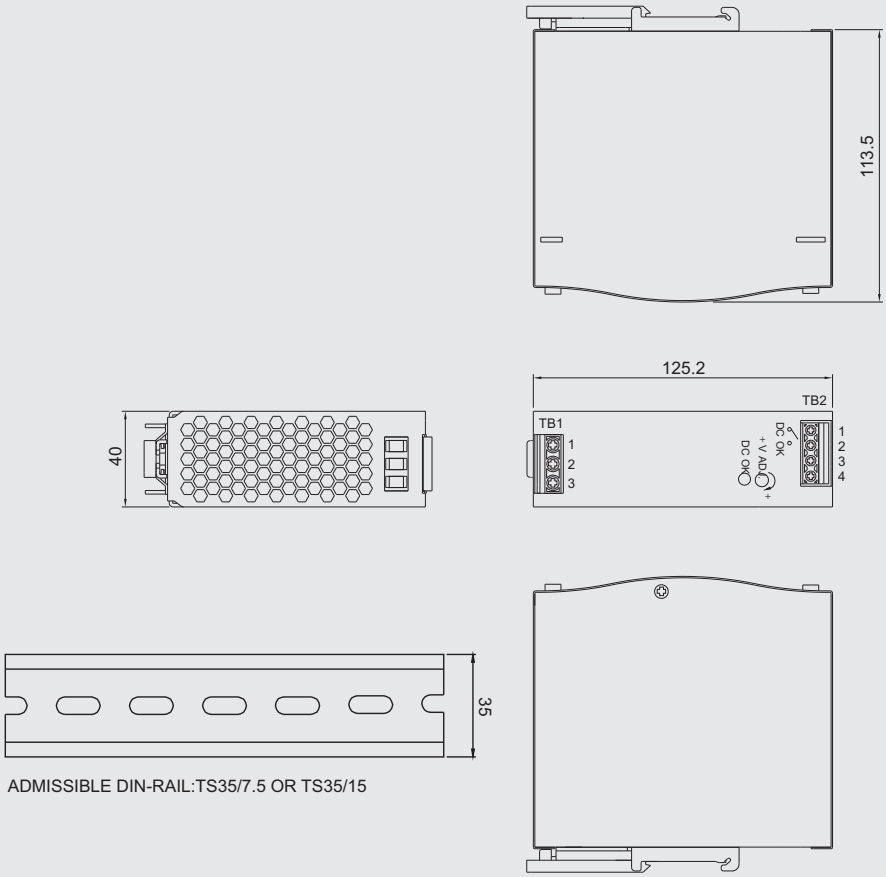
CE RoHS

MODEL		SDR-120-12	SDR-120-24
OUTPUT	DC VOLTAGE	12V	24V
	RATED CURRENT	10A	5A
	CURRENT RANGE	0-10A	0-5A
	RATED POWER	120W	120W
	PEAK CURRENT	15A	7.5A
	PEAK POWER note 6	180W (sec.)	
	RIPPLE & NOISE (max.) Note.2	100mVp-p	150mVp-p
	VOLTAGE ADJ. RANGE	12-14V	24-28V
	VOLTAGE TOLERANCE Note.3	±1.0%	±1.0%
	LINE REGULATION	±0.5%	±0.5%
	LOAD REGULATION	±1.0%	±1.0%
	SETUP, RISE TIME	1500ms,60ms/230VAC 3000ms,60ms/115VAC(Full load)	
	HOLD UP TIME (Typ.)	20ms/230VAC 20ms/115VAC(Full load)	
INPUT	VOLTAGE RANGE Note.7	88~264VAC 124~370VDC	
	FREQUENCY RANGE	47~63Hz	
	EFFICIENCY(Typ.)	85%	88%
	AC CURRENT(Typ.)	1.4A/115VAC 0.85A/230VAC	
	INRUSH CURRENT (Typ.)	35A/115VAC 70A/230VAC	
	LEAKAGE CURRENT	< 1mA/240VAC	
PROTECTION	SHORT CIRCUIT/OVERLOAD	150%~170% rated power, constant current limiting, recovers automatically after fault condition is removed	
FUNCTION	DC OK RELAY CONTACT RATINGS (max.)	60VDC/0.3A,30VDC/1A,30VAC/0.5A resistive load	
ENVIRONMENT	WORKING TEMP.	-20℃~+70℃ (Refer to "Derating Curve")	
	WORKING HUMIDITY	20~95%RH , non-condensing	
	STORAGE TEMP.,HUNMIDITY	-40~+85℃ , 10~95%RH	
	TEMP. COEFFICIENT	±0.03%/℃ (0~50℃)	
	VIBRATION	Component:10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes; Mounting: Compliance to IEC60068-2-6	
SAFETY & EMC (Note 4)	SAFETY STANDARDS	Meet UL508,EAC TP TC 004, BSMI CNS14336-1,TUV BS EN/EN62368-1, IS13252(Part1)/IEC60950-1	
	WITHSTAND VOLTAGE	I/P-O/P：3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC	
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG: > 100M Ohms/500VDC/25℃/70%RH	
	EMC EMISSION	Meet BS EN/EN55032(CISPR32),BS EN/EN61204-3 Class B,BS EN/EN61000-3-2,EAC TP TC 020, CNS13438	
	EMC IMMUNITY	Meet BS EN/EN61000-4-2,3,4,5,6,8,11,BS EN/EN55024, BS EN/EN61000-6-2(BS EN/EN50082-2), BS EN/EN61204-3, Class A Industry Standard , EAC TP TC 020	
OTHERS	MTBF	1764.6K hrs min. Telcordia SR-332 (Bellcore) ; 292.1K hrs min. MIL-HDBK-217F (25℃)	
	DIMENSION	40*125.2*113.5mm(W*H*D)	
	PACKING	0.67Kg; 20pcs/14.4Kg/1.16CUFT	
NOTE	1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25℃ of ambient temperature. 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 ragulation and load regulation. 4. The power supply is considered a component which will be installed into final equipment. The final equipment must be re-confirmed that it still meets EMC directives. 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 soure, 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.		

SDR-120 Din Rail Power Supply

Mechanical Specification

Unit : mm



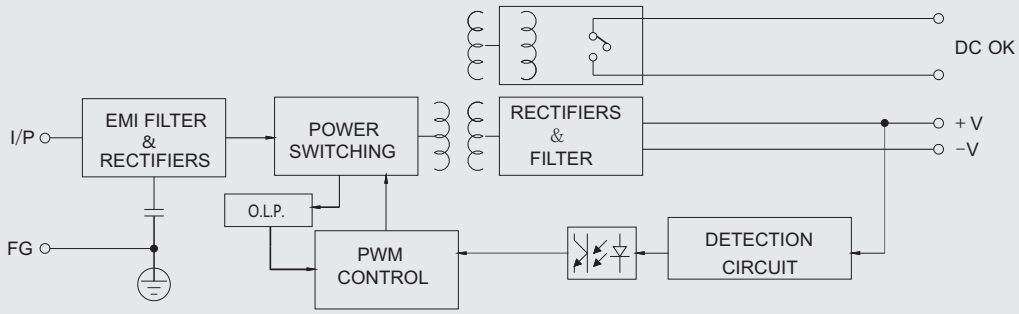
Terminal Pin No. Assignment (TB1)

Pin No.	Assignment
1	FG ⏚
2	AC/N or DC −
3	AC/L or DC +

Terminal Pin No. Assignment (TB2)

Pin No.	Assignment
1,2	RELAY CONTACT RATINGS
3	DC OUTPUT -V
4	DC OUTPUT +V

Block Diagram



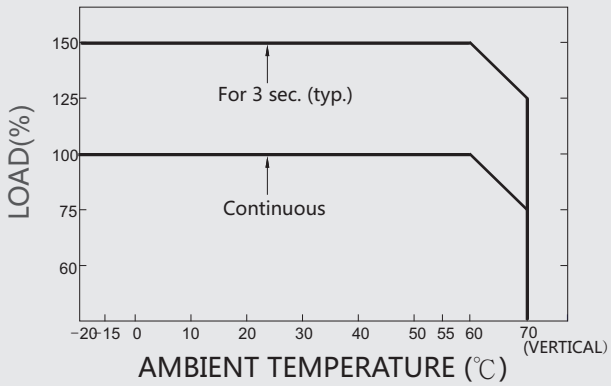
DC OK Relay Contact

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

Peak Loading



Derating Curve



Output derating VS input voltage

