



## ■ 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







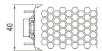
MODEL		SDR-120-12	SDR-120-24	SDR-120-48	
ОИТРИТ	DC VOLTAGE	12V	24V	48V	
	RATED CURRENT	10A	5A	2.5A	
	CURRENT RANGE	0 ~ 10A	0 ~ 5A	0 ~ 2.5A	
	RATED POWER	120W	120W	120W	
	PEAK CURRENT	15A	7.5A	3.75A	
	PEAK POWER Note.6	180W (3 sec.)	1		
	RIPPLE & NOISE (max.) Note.2	, ,	100mVp-p	120mVp-p	
	VOLTAGE ADJ. RANGE	12 ~ 14V	24 ~ 28V	48 ~ 55V	
	VOLTAGE TOLERANCE Note.3		±1.0%	±1.0%	
	LINE REGULATION	±0.5%	±0.5%	±0.5%	
	LOAD REGULATION	±1.0%	±1.0%	±1.0%	
	SETUP, RISE TIME		ns, 60ms/115VAC at full load	= 1.070	
	HOLD UP TIME (Typ.)	20ms/230VAC 20ms/115VAC at full load			
INPUT	VOLTAGE RANGE Note.7				
	FREQUENCY RANGE	00 ~ 204 VAC 124 ~ 370 VDC 47 ~ 63Hz			
		0.93/230VAC 0.96/115VAC at full load			
	POWER FACTOR (Typ.)		91%	00.50/	
	EFFICIENCY (Typ.)	89%	91%	90.5%	
	AC CURRENT (Typ.)	1.4A/115VAC 0.7A/230VAC 35A/115VAC 70A/230VAC			
	INRUSH CURRENT (Typ.)				
	LEAKAGE CURRENT	<1mA/240VAC			
PROTECTION	OVERLOAD	Normally works within 110 ~ 150% rated output power for more than 3 seconds and then shut down o/p voltage			
		>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 type: Shut down o/p voltage, re-power on to recover			
	OVER TEMPERATURE	95°C ±5°C (TSW) detect on heatsink of power switch			
	OVER TEMP ENVIORE	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 & EMC (Note 4)	SAFETY STANDARDS	UL508, TUV EN60950-1 approved			
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC O/P-DC OK:0.5KVAC			
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:>100M Ohms / 500VDC / 25°C / 70% RH			
	EMC EMISSION	Compliance to EN55011, EN55022 (CISPR22), EN61204-3 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			
OTHERS	MTBF	289.9K hrs min. MIL-HDBK-217F (25°C)			
	DIMENSION	40*125.2*113.5mm (W*H*D)			
	PACKING	0.67Kg; 20pcs/14.4Kg/1.16CUFT			
NOTE	Ripple & noise are measure     Tolerance: includes set up     The power supply is consid     EMC directives.     Installation clearances: 40re	tolerance, line regulation and load ered a component which will be ins nm on top, 20mm on the bottom, 5 is a heat source, 15mm clearance	a 12" twisted pair-wire terminated regulation. talled into a final equipment. The firm on the left and right side are re	ambient temperature. with a 0.1 of & 47 of parallel capacitor. inal equipment must be re-confirmed that it still meets ecommended when loaded permanently with full power.	

Derating may be needed under low input voltage. Please check the derating curve for more details.

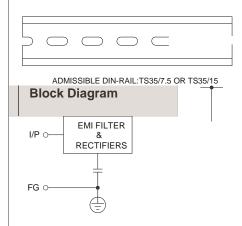


## **Mechanical Specification**

Case No.992A Unit:mm



Pin	Assignment	
No.		
1	FG 🖶	
2	AC/N	
3	AC/L	
Pin	Assignment	
No.		
1,2	Relay Contact	
3	DC OUTPUT -V	
4	DC OUTPUT+V	



**DC OK Relay Contact** 

