

960W Single Output Industrial DIN RAIL with PFC Function

SDR-960 series

User's Manual

Features :

- AC input 180~264VAC only
- 130% peak load capability
- 110mm slim design
- Built-in active PFC function compliance to BS EN/EN61000-3-2
- * High efficiency 94% and low power dissipation
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Cooling by free air convection
- Built-in constant current limiting circuit
- Can be installed on DIN rail TS-35/7.5 or 15
- UL508(industrial control equipment)approved
- * BS EN/EN61000-6-2(BS EN/EN50082-2) industrial immunity level
- Current sharing up to 3840W(3+1)
- Built-in DC OK relay contact
- 100% full load burn-in test
- 3 years warranty

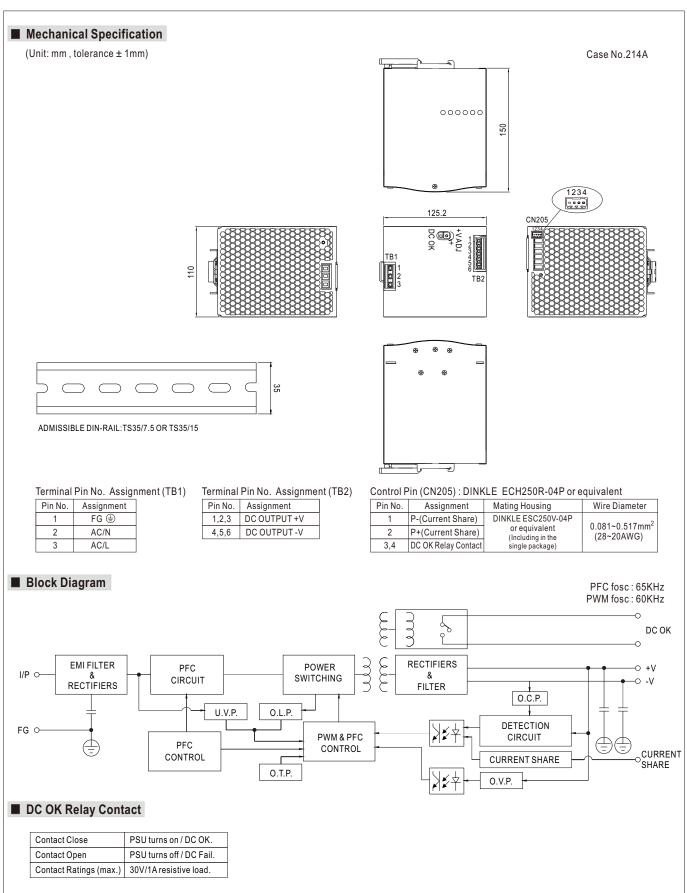


MODEL		SDR-960-24	SDR-960-48
OUTPUT	DC VOLTAGE	24V	48V
	RATED CURRENT	40A	20A
	CURRENT RANGE	0~40A	0~20A
	RATED POWER	960W	960W
	PEAK CURRENT	52A	26A
	PEAK POWER Note.6	1248W (3sec.)	I
	RIPPLE & NOISE (max.) Note.2	180mVp-p	250mVp-p
	VOLTAGE ADJ. RANGE	24 ~ 28V	48 ~ 55V
	VOLTAGE TOLERANCE Note.3		±1.0%
	LINE REGULATION	±0.5%	±0.5%
	LOAD REGULATION	±1.0%	±1.0%
	SETUP, RISE TIME	1000ms, 100ms/230VAC at full load	- 1.0 /0
	HOLD UP TIME (Typ.)	14ms / 230VAC at full load	
	VOLTAGE RANGE Note.7		
INPUT	FREQUENCY RANGE	47 ~ 63Hz	
	POWER FACTOR (Typ.)	PF≧0.95/230VAC at full load	
			049/
	EFFICIENCY (Typ.)	94%	94%
	AC CURRENT (Typ.)	6A/230VAC COLD START 50A / 230VAC	
	INRUSH CURRENT (Typ.)		
	LEAKAGE CURRENT	<3.5mA / 240VAC	
PROTECTION		Normally works within 105 ~ 130% rated output power for more than 3 seconds and then shut down o/p voltage with auto-recover	
	OVERLOAD	after 30 seconds if the peak load condition is removed	
		Constant current limiting within 130 ~ 150% rated output power for more than 3 seconds and then shut down o/p voltage, re-power	
		on to recover	
	OVER VOLTAGE	29 ~ 33V	56 ~ 65V
		Protection type : Shut down o/p voltage, with auto-recovery or re-power on to recover	
	OVER TEMPERATURE	Shut down o/p voltage, recovers automatically after temperature goes down	
FUNCTION	DC OK REALY CONTACT RATINGS (max.)	60Vdc/0.3A, 30Vdc/1A, 30Vac/0.5A resistive load	
	CURRENT SHARING	Please refer to function manual	
ENVIRONMENT	WORKING TEMP. Note.5	-30 ~ +70 $^\circ \rm C$ (Refer to "Derating Curve")	
	WORKING HUMIDITY	20 ~ 95% RH non-condensing	
	STORAGE TEMP., HUMIDITY	-40 ~ +85 $^\circ\mathrm{C}$, 10 ~ 95% RH non-condensing	
	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 BS EN/EN62368-1, BSMI CNS14336-1, AS/NZS62368.1, EAC TP TC 004 approved ; (meet BS EN/EN60204-1)	
	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	
	Compliance to BS EN/EN55032 (CISPR32), BS EN/EN61204-3 Conduction class B, Radiation class A, BS EN/EN61000-3-2,-3		
	EMC EMISSION Note.8	EAC 1P 1C 020, BSMI CNS13438, KC NSC 9832	
	EMC IMMUNITY	Compliance to 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	
		heavy industry level, EAC TP TC 020, KC KSC 9835	0.7
OTHERS	MTBF	660.2K hrs min. Telcordia SR-332 (Bellcore) ; 70.7K hrs min. MIL-HDBK-217F (25°C)	
	DIMENSION	110*125.2*150mm (W*H*D)	
	PACKING	2.47Kg ; 6pcs/15.8Kg/1.55CUFT	
NOTE	 All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 µ F & 47 µ F parallel capacitor. Tolerance : includes set up tolerance, line regulation and load regulation. 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 EMC directives. (as available on https://www.meanwell.com//Upload/PDF/EMI_statement_en.pdf) 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. 3 seconds peak power max. and the average output power should not exceed the rate power. Derating may be needed under low input voltage. Please check the derating curve for more details. Consult MEAN WELL for deployment of Radiation class B. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 200m(6500ft). 		

9. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft). % Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx



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