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960W Single Output Industrial DIN RAIL with PFC Function





Features :

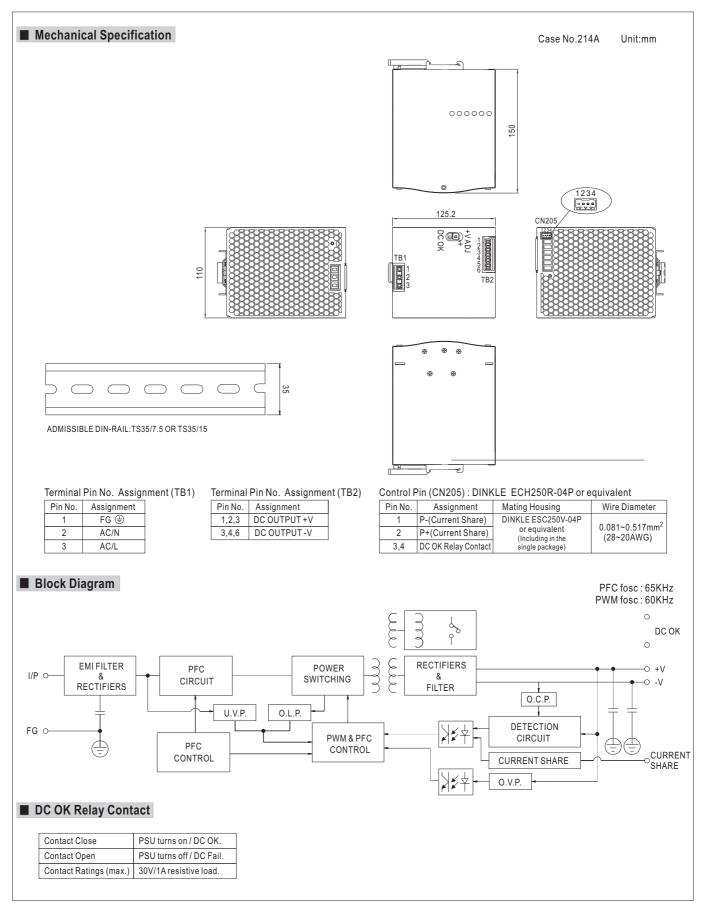
- AC input 180~264VAC
- 130% peak load capability
- Width only 110mm
- Built-in active PFC function compliance to EN61000-3-2
- High efficiency 94% and low power dissipation
- · Protections: Short circuit / Overload / Over voltage / Over temperature
- · Cooling by free air convection
- · Built-in constant current limiting circuit
- Can be installed on DIN rail TS-35/7.5 or 15
- UL508(industrial control equipment)approved
- EN61000-6-2(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

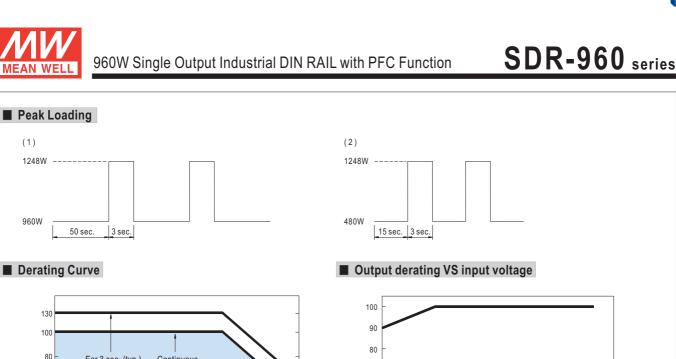


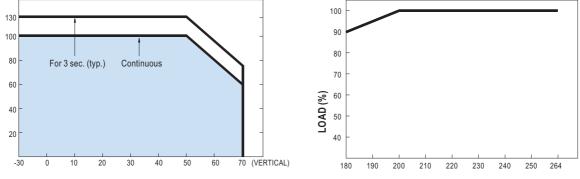
SPECIFICATION

MODEL		SDR-960-24	SDR-960-48	
	DC VOLTAGE	24V	48V	
OUTPUT	RATED CURRENT	40A	20A	
	CURRENT RANGE	0~40A	0~20A	
	RATED POWER	960W	960W	
	PEAK CURRENT	52A	26A	
	PEAK POWER Note.6	1248W (3sec.)		
	RIPPLE & NOISE (max.) Note.2		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		
	HOLD UP TIME (Typ.)	14ms / 230VAC at full load		
		180 ~ 264VAC 254 ~ 370VDC		
	FREQUENCY RANGE	47~63Hz		
	POWER FACTOR (Typ.)	$PF \ge 0.95/230VAC$ at full load		
	EFFICIENCY (Typ.)	94%	94%	
	AC CURRENT (Typ.)	6A/230VAC	0, 10	
	INRUSH CURRENT (Typ.)	COLD START 50A		
	LEAKAGE CURRENT	<3.5mA / 240VAC		
PROTECTION			and a second and then shut down als veltage with suite receiver	
	OVERLOAD	Normally works within 105 ~ 130% rated output power for more than 3 seconds and then shut down o/p voltage with auto-recovery 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		
	OVER VOLTAGE	29 ~ 33V 56 ~ 65V		
		Protection type : Shut down o/p voltage, with auto-recovery or re-power on to recover		
	OVER TEMPERATURE	90℃±5℃ (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.)			
	CURRENT SHARING	Please refer to function manual		
ENVIRONMENT	WORKING TEMP. Note.5			
	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 &	SAFETY STANDARDS	UL508, UL60950-1, 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		
EMC	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:>100M Ohms / 500VDC / 25°C / 70% RH		
(Note 4)	EMC EMISSION	Compliance to EN55022 (CISPR22), EN61204-3 , 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		
OTHERS	MTBF	69.8K hrs min. MIL-HDBK-217F (25℃)		
	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 0.1uf & 47uf 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. 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. 			









AMBIENT TEMPERATURE (°C)

INPUT VOLTAGE (V) 60Hz

Function Manual

(1)

1248W

960W

LOAD (%)

1. Current sharing

(1) Parallel operation is available by connecting the units shown as below (P+,P- are connected mutually in parallel).

- (2) Difference of output voltages among parallel units should be less than 0.2V.
- (3) The total output current must not exceed the value determined by the following equation (Output current at parallel operation)=(The rated current per unit) x (Number of unit) x 0.9.
- (4) In parallel operation 4 units is the maximum, please consult the manufacture for other applications.
- (5) The power supplies should be paralleled using short and large diameter wiring and then connected to the load.
- (6) When in parallel operation, the minimum output load should be greater than 5% of total output load.
- (Min. load >5% rated current per unit x number of unit)

(7) In parallel connection, maybe only one unit (master) operate if the total output load is less than 5% of rated load condition. The other PSUs (slaves) may go into standby mode and their output LEDs & relays will not turn on.

(8) Some minor noise may be heard at light load condition under parallel operation.

This is a normal phenomenon and the performance of the PSU will not be influenced.

