MEAN WELL SDR-960 Series





- * 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













SPECIFICATION

SPECIFICATION		5.101.1000		
MODEL		SDR-960-24	SDR-960-48	
ОИТРИТ	DC VOLTAGE	24V	48V	
	RATED CURRENT	40A	20A	
	CURRENT RANGE	0 ~ 40A	0~20A	
	RATED POWER	960W	960W	
	PEAK CURRENT	52A	26A	
		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	1.070	
	HOLD UP TIME (Typ.)	14ms / 230VAC at full load		
INPUT	VOLTAGE RANGE Note.7			
	FREQUENCY RANGE	47 ~ 63Hz		
	POWER FACTOR (Typ.)	PF≥0.95/230VAC at full load		
	, , ,		0.40/	
	EFFICIENCY (Typ.)	94% 6A/230VAC	94%	
	AC CURRENT (Typ.)	COLD START 50A / 230VAC		
	INRUSH CURRENT (Typ.)	<3.5mA / 240VAC		
	LEAKAGE CURRENT			
PROTECTION		Normally works within 105 ~ 130% rated output power for more than 3 seconds and then shut down o/p voltage with auto-recovery		
	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 °C (Refer to "Derating Curve")		
	WORKING HUMIDITY	20 ~ 95% RH non-condensing		
	STORAGE TEMP., HUMIDITY	-40 ~ +85°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	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 Note.8	Compliance to BS EN/EN55032 (CISPR32), BS EN/EN61204-3 Conduction class B, Radiation class A, BS EN/EN61000-3-2,-3,		
		EAC 17 TC 020, B5MT CN5 13438, KC K5C 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,		
	MTBF	heavy industry level, EAC TP TC 020, KC KSC 9835 660 2K has min. Tologodia SP 232 (Pollogon) - 70 7K has min. MIL HDBK 2475 (25°C)		
OTHERS		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	 Ripple & noise are measure Tolerance : includes set up 	pecially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. assured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. et up tolerance, line regulation and load regulation. onsidered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets		

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In case the adjacent device is a heat source, 15mm clearance is recommended.

6. 3 seconds peak power max. and the average output power should not exceed the rate power.

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

8. Consult MEAN WELL for deployment of Radiation class B.

Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx



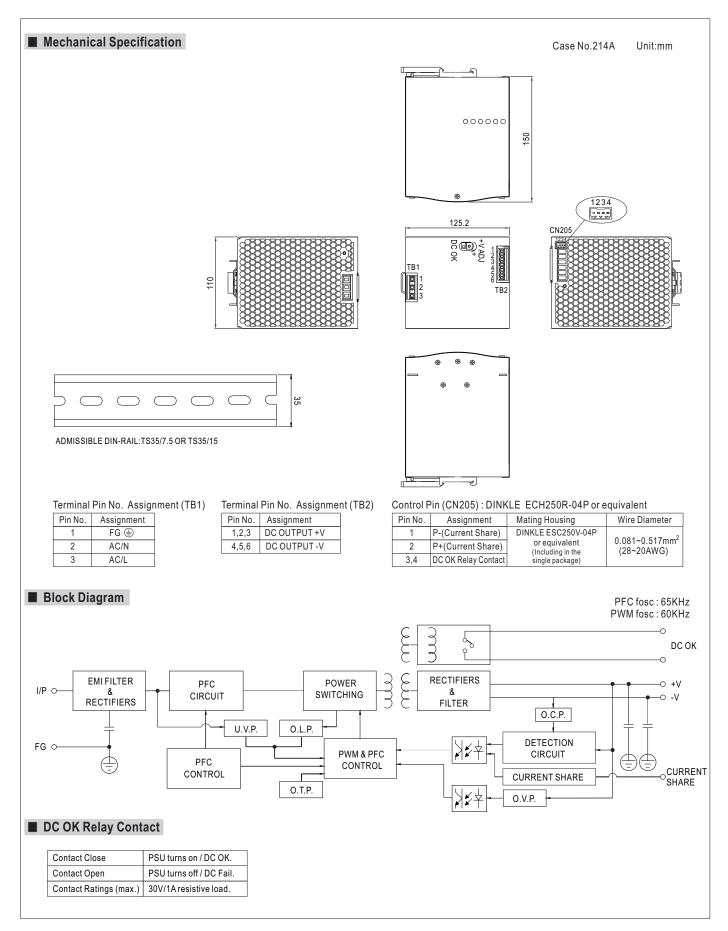
5. Installation clearances: 40mm on top, 20mm on the bottom, 5mm on the left and right side are recommended when loaded permanently with full power.

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).









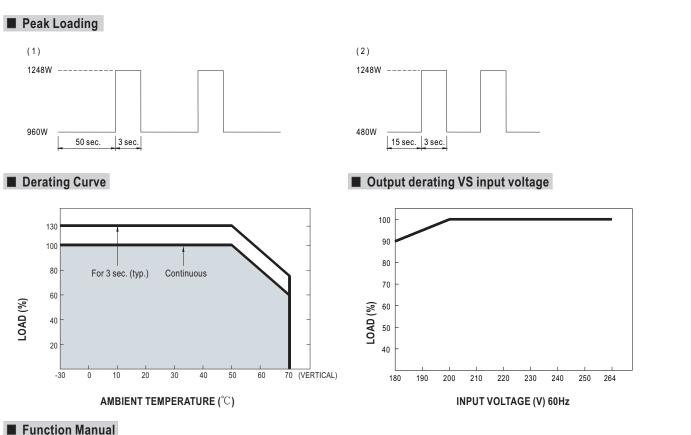
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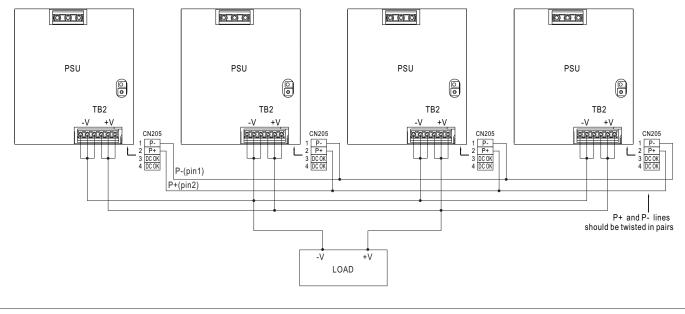






- 1. Current sharing
 - (1) Parallel operation is available by connecting the units shown as below (P+,P- are connected mutually in parallel).
 - (2) Difference of output voltages among parallel units should be less than 0.2V.
 - (3) The total output current must not exceed the value determined by the 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.



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