



■ Features :

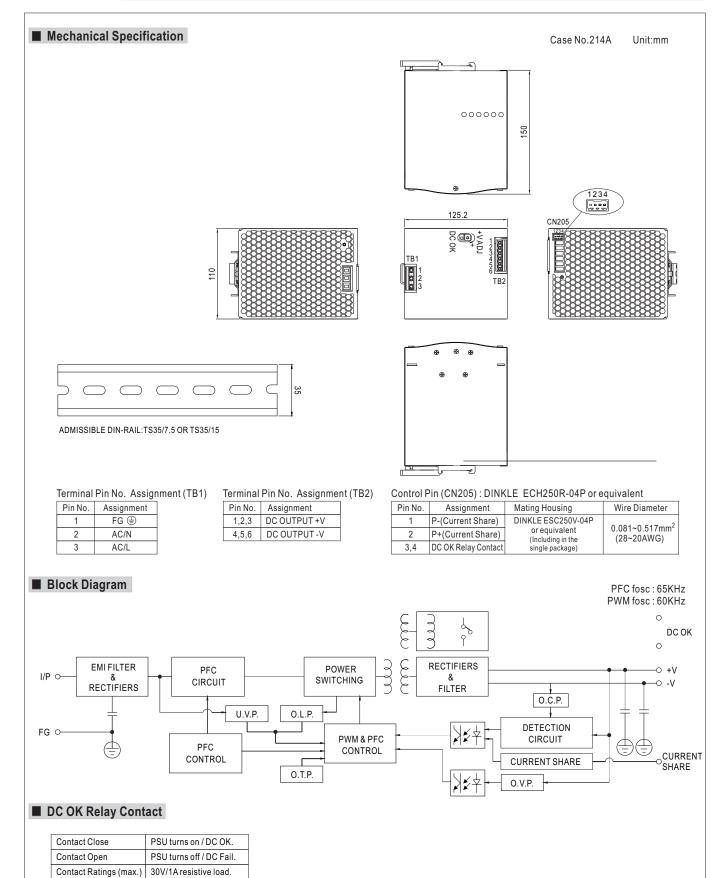
- AC input 180~264VAC only
- 130% peak load capability
- 110mm slim design
- Built-in active PFC function compliance to EN61000-3-2
- High efficiency 94% and low power dissipation
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Cooling by free air convection
- Built-in constant 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
ОИТРИТ	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.)	
	RIPPLE & NOISE (max.) Note.2		250mVp-p
	VOLTAGE ADJ. RANGE	24 ~ 28V	48 ~ 55V
	VOLTAGE TOLERANCE Note.3	±1.0%	±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	
	VOLTAGE RANGE Note.7	180 ~ 264VAC 254 ~ 370VDC	
INPUT	FREQUENCY RANGE	47 ~ 63Hz	
	POWER FACTOR (Typ.)	PF≧0.95/230VAC at full load	
	EFFICIENCY (Typ.)	94%	94%
	AC CURRENT (Typ.)	6A/230VAC	J 7 / 0
	INRUSH CURRENT (Typ.)	COLD START 50A / 230VAC	
	LEAKAGE CURRENT	<3.5mA/240VAC	
PROTECTION	ELANAGE CONNENT	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	
		29 ~ 33V	56 ~ 65V
	OVER VOLTAGE	Protection type: Shut down o/p voltage, with auto-recovery or re-	1
	OVER TEMPERATURE	Shut down o/p voltage, recovers automatically after temperature goes down	
			60Vdc/0.3A, 30Vdc/1A, 30Vac/0.5A resistive load
FUNCTION	DC OK REALY CONTACT RATINGS (max.) 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	$\pm 0.03\%$ °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 STANDARDS	UL508, TUV EN60950-1, EAC TP TC 004 approved; (meet EN60204-1)	
SAFETY & EMC (Note 4)	WITHSTAND VOLTAGE	1/P-O/P:3KVAC	
	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 EN55032 (CISPR32), EN61204-3 Conduction class B, Radiation class A, EN61000-3-2,-3, EAC TP TC 020	
	EMC IMMUNITY		
	MTBF	Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, EN61000-6-2 (EN50082-2), EN61204-3, heavy industry level, criteria A, EAC TP TC 020 69.8K hrs min. MIL-HDBK-217F (25°C)	
OTHERS	DIMENSION	110*125.2*150mm (W*H*D)	
	PACKING	2.47Kg; 6pcs/15.8Kg/1.55CUFT	
NOTE		ly mentioned are measured at 230VAC input, rated load and 25	°C of ambient temperature
NOTE	 Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 of & 47 of 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. 		
	8. Consult MEAN WELL for de	ider low input voltage. Please check the derating curve for more polyment of Radiation class B. erating of $3.5^{\circ}\text{C}/1000\text{m}$ with fanless models and of $5^{\circ}\text{C}/1000\text{m}$ v	







■ Peak Loading (2) (1) 1248W 1248W 960W 480W 50 sec. 3 sec. 15 sec. 3 sec. ■ Derating Curve ■ Output derating VS input voltage 100 130 90 100 80 80 For 3 sec. (typ.) Continuous 70 60 LOAD (%) -OAD (%) 60 40 20 40 70 (VERTICAL) 50 -30 60 180 190 AMBIENT TEMPERATURE (°C) INPUT VOLTAGE (V) 60Hz

■ Function Manual

- 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.

