



■ 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









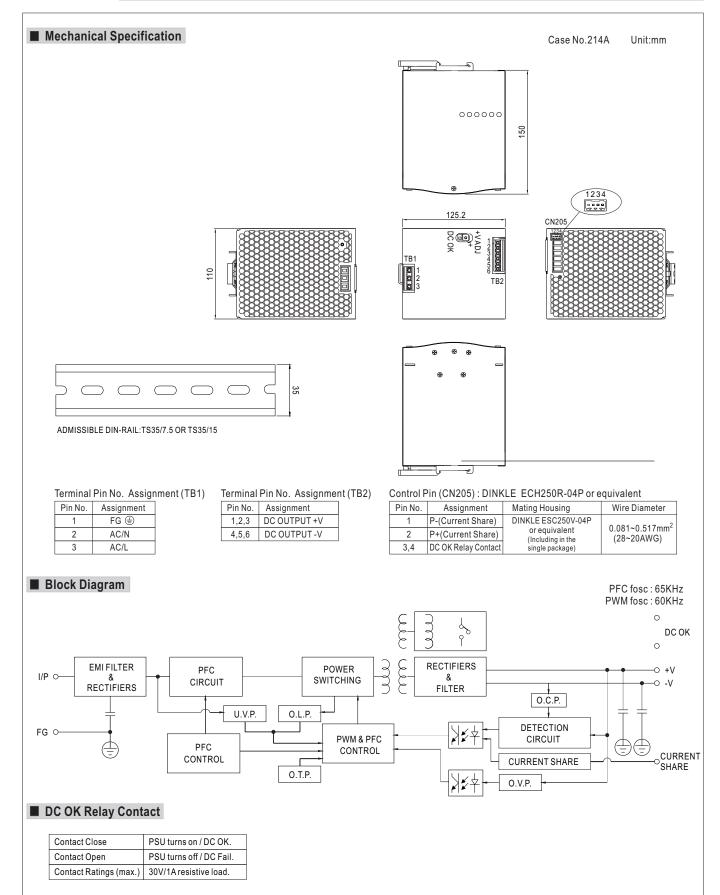


SPECIFICATION

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	180mVp-p	250mVp-p	
	VOLTAGE ADJ. RANGE	24 ~ 28V	48 ~ 55V	
	VOLTAGE TOLERANCE Note.3	±1.0%	±1.0%	
	LINE REGULATION	$\pm 0.5\%$	±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		
	FREQUENCY RANGE	47 ~ 63Hz		
	POWER FACTOR (Typ.)	PF≧0.95/230VAC at full load		
INPUT	EFFICIENCY (Typ.)	94%	94%	
	AC CURRENT (Typ.)	6A/230VAC		
	INRUSH CURRENT (Typ.)	COLD START 50A / 230VAC		
	LEAKAGE CURRENT	<3.5mA / 240VAC		
PROTECTION	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 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			
FUNCTION		Shut down o/p voltage, recovers automatically after temperature goes down 60Vdc/0.3A, 30Vdc/1A, 30Vac/0.5A resistive load		
	DC OK REALY CONTACT RATINGS (max.)	Please refer to function manual		
	CURRENT SHARING WORKING TEMP. Note.5	-30 ~ +70°C (Refer to "Derating Curve")		
ENVIRONMENT	WORKING TEMP. Note.5 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 STANDARDS	UL508, TUV EN60950-1, EAC TP TC 004, BSMI CNS14336-1 approved; (meet EN60204-1)		
045557	WITHSTAND VOLTAGE	1/P-O/P:3KVAC		
SAFETY &	ISOLATION RESISTANCE	I/P-O/P, I/P-FG; O/P-FG; 0.5KVAC		
EMC (Note 4)	EMC EMISSION Note.8			
	EMC IMMUNITY			
OTHERS	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)		
	DIMENSION	69.8K hrs min. MIL-HDBK-21/F (25 C) 110*125.2*150mm (W*H*D)		
	PACKING	2.47Kg ; 6pcs/15.8Kg/1.55CUFT		
NOTE	1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. 3. Tolerance: includes set up tolerance, line regulation and load regulation.			

- 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. 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.
 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).







■ 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

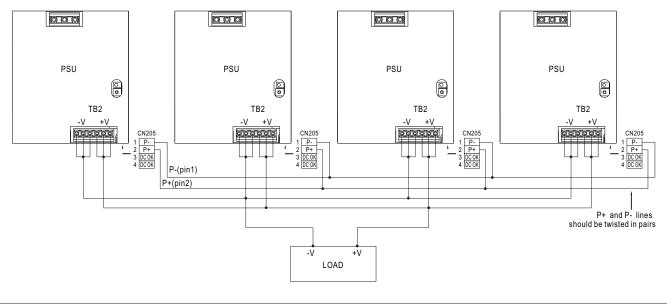
■ Function Manual

- 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.







Declaration of Conformity							
For the following equipment:							
Product Name: Din-Rail Switching Power Supply							
Model Designation: SDR-960-X (X=24,48)							
is herewith confirmed to comply with the requirements set out in the Council Directive, the following standards were applied: RoHS Directive (2011/65/EU), (EU)2015/863							
Low Voltage Directive (2014/35/EU):							
EN62368-1:2014+A11	tificate No :	R50450450					
Electromagnetic Compatibility Directive (2014/30/EU): EMI (Electro-Magnetic Interference) Conducted emission / Radiated emission EN55032:2015/A11:2020 Class A							
Harmonic current	EN IEC61000-3-2:2019						
Voltage flicker	EN61000-3-3:2013+A1:2019						
EMS (Electro-Magnetic S	Susceptibility)						
EN55024:2010+A1:2015	EN IEC 61000-6-2:2019 EN IEC 61204-	3:2018 EN	N55035:2017+A11:2020				
ESD air	EN61000-4-2:2009	Level 4	15KV				
ESD contact	EN61000-4-2:2009	Level 4	8KV				
RF field susceptibility	EN61000-4-3:2006+A1:2008+A2:2010	Level 3	10V/m				
EFT bursts	EN61000-4-4:2012	Level 3	2KV/5KHz				
Surge susceptibility	EN61000-4-5:2014+A1:2017	Level 4	2KV/Line-Line				
Surge susceptibility	EN61000-4-5:2014+A1:2017	Level 4	4KV/Line-Earth				
Conducted susceptibility	EN61000-4-6:2014	Level 3	10V				
Magnetic field immunity	EN61000-4-8:2010	Level 4	30A/m				
Voltage dip, interruption	EN IEC61000-4-11:2020 >95% dip 0.5 periods	30% dip 25 pe	riods >95% interruptions 250 periods				
Note: The power supply is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the complete system, the final equipment manufacturers must re-qualify EMC Directive on the complete system again. For guidance on how to perform these EMC tests, please refer to TDF (Technical Documentation File).							
This Declaration is effective from serial number RC0xxxxxxx							
Person responsible for marking this declaration:							
	Co., Ltd. Vugu Dist., New Taipei City 24891, Taiwan						
(Manufacturer Address)							

Alex Tsai/Director, Marketing Department:

(Name / Position)

Johnny Huang/ Manager, Certification Center:

(Name / Position)

Taiwan

(Place)

(Signature)

(Date)

Dec. 15th, 2020

(Signature)