Pollock Industries

Compact 960W 48V Single Output DIN RAIL Power Supply with PFC

UNIT CODE	DESCRIPTION
C-SDR 960-48	960 Watt, 48V, Single Output, Compact DIN RAIL Power Supply with PFC and Parallel Functions

SPECIFICATIONS			
AC Input	Output	Approvals	
Single Phase 230VAC (180~264VAC Input Range)	+48VDC @ 0~20A	Parallel P c U us CBCE	

Features at a Glance:

AC input 180~264VAC only

Current sharing up to 3,840W (3+1) (Parallel)

High efficiency 94% and low power dissipation

Built-in: active PFC function (PF>0.94); constant current limiting circuit & DC OK relay contact

Slim 110mm Installed on DIN rail TS35 / 7.5 or 15

Protections: Short circuit, Overload, Over voltage and Over temperature 130% peak load capability for 3 seconds Front panel DC voltage adjustment

LED indicator for power ON

DC OK relay contact

Quiet - Cooling by natural (free air) convection

100% full load burn-in test & 3 year warranty

Safety standards: UL508, TUV EN60950-1, EN61000-6-2(EN50082-2) industrial immunity

Certificates: UL / CUL / TUV / CB / CE

MTBF hours: 69.8K hrs. MIL-HDBK-217F (25°C)

Case: 214A

Weight: 5.4 Lbs. (2.47 Kgs)

Dimensions: 4.3" W x 4.9" H x 5.9" D

110 x 125.2 x 150mm (W*H*D)

3 year warranty

Release & Application Notes



C-SDR960 fulfills the requirement for a high power, slim industrial DIN rail power supply with PFC, that has a compact design (110mm wide), is highly efficient (94%) and quiet.

The C-SDR960 Series features a built-in, active PFC function and a 180~264VAC input range can be used in general power system with single phase 230VAC input. It can be operated at the full load of 960W at up ambient temperatures up +50°C (or up to +70°C with some power derating). Other standard functions include DC OK relay contact alarm signal output, parallel function (up to 4 units), front panel DC voltage adjustment (100~115%), front panel LED indicator, as well as protections for short-circuit, overload, over voltage, and over temperature.

Suitable applications include industrial control systems, semi-conductor fabrication equipment, factory automation, electro-mechanical applications, and any installation with fan-less or low noise requirements.

Pricing 1 ~ 9 \$ 499.00 10+ \$ 459.00 25+ \$ 415.00 960W Single Output Industrial DIN RAIL with PFC Function



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

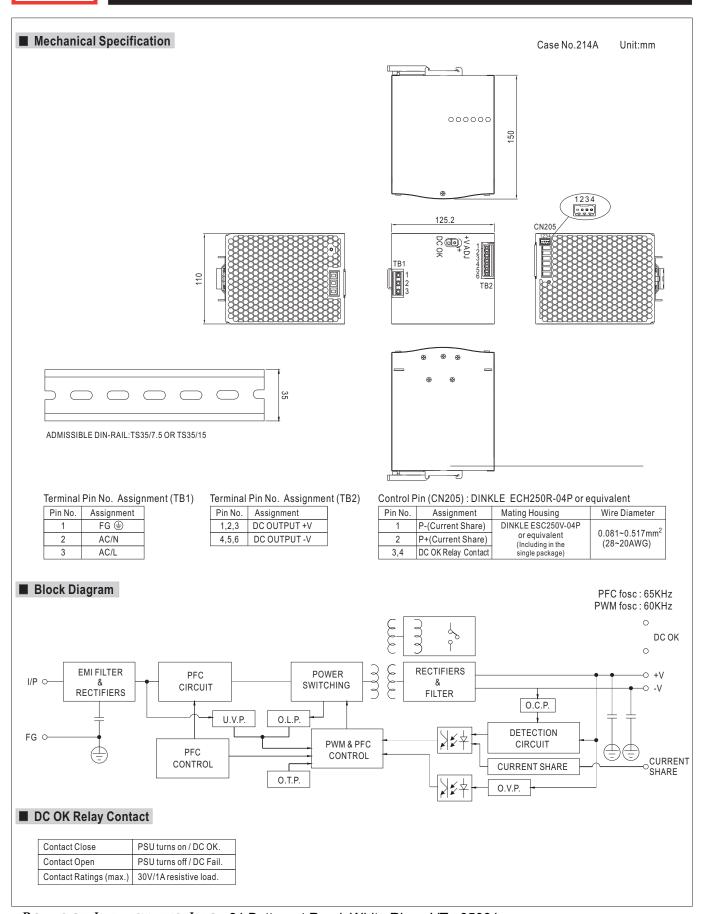


MODEL		SDR-960-24	SDR-960-48	
	DC VOLTAGE	24V	48V	
	RATED CURRENT	40A	20A	
	CURRENT RANGE	0~40A	0~20A	
	RATED POWER	960W	960W	
	PEAK CURRENT	52A	26A	
	PEAK POWER Note.6	1248W (3sec.)		
OUTPUT	RIPPLE & NOISE (max.) Note.2	180mVp-p	250mVp-p	
	VOLTAGE ADJ. RANGE	24 ~ 28V	48 ~ 55V	
	VOLTAGE TOLERANCE Note.3	±1.0%	±1.0%	
	LINE REGULATION	±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%		
	AC CURRENT (Typ.)	6A/230VAC		
	INRUSH CURRENT (Typ.)	COLD START 50A / 230VAC		
	LEAKAGE CURRENT	<3.5mA/240VAC		
		Normally works within 105 ~ 130% rated output power for more than 3 seconds and then shut down o/p voltage with auto-recovery		
	01/501 010	after 30 seconds if the peak load condition is removed		
	OVERLOAD	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		
PROTECTION	OVER VOLTAGE	29 ~ 33V	56 ~ 65V	
		Protection type: Shut down o/p voltage, with auto-recovery or re	e-power on to recover	
	OVER TEMPERATURE	90°C±5°C (TSW) detect on heatsink of power switch		
0		Protection type: Shut down o/p voltage, recovers automatically after temperature goes down		
	DC OK REALY CONTACT RATINGS (max.)			
FUNCTION	CURRENT SHARING	Please refer to function manual		
		-30 ~ +70°C (Refer to "Derating Curve")		
	WORKING HUMIDITY	20 ~ 95% RH non-condensing		
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH		
LINVINONMILINI	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 approved		
SAFETY &	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		
EMC (Note 4)		Compliance to EN55022 (CISPR22), EN61204-3 Conduction class B, Radiation class A, EN61000-3-2,-3		
	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 69.8K hrs min. MIL-HDBK-217F (25°C)		
	DIMENSION	110*125.2*150mm (W*H*D)		
	PACKING	2.47Kg; 6pcs/15.8Kg/1.55CUFT		
	FACRING	ally mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.		

- 4. 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.
- 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.

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SDR-960 series



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