Pollock Industries

Compact 960W 24V Single Output DIN RAIL Power Supply with PFC

UNIT CODE	DESCRIPTION
C-SDR 960-24	960 Watt, 24V, Single Output, Compact DIN RAIL Power Supply with PFC and Parallel Functions

SPECIFICATIONS				
AC Input	Output	Approvals		
Single Phase 230VAC (180~264VAC Input Range)	+24VDC @ 0~40A	Parallel Par		

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



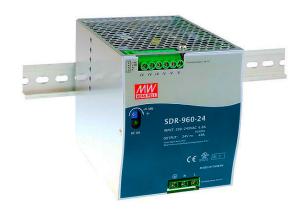
C-SDR960 fulfills the requirement for a high power, slim industrial DIN rail power supply with PFC, that has a compact design (110mm wide), is highly efficient (94%) and quiet.

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, an over temperature.

Suitable applications include industrial control systems, semi-conductor fabrication equipment, factory automation, electro-mechanical applications, and any installations 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

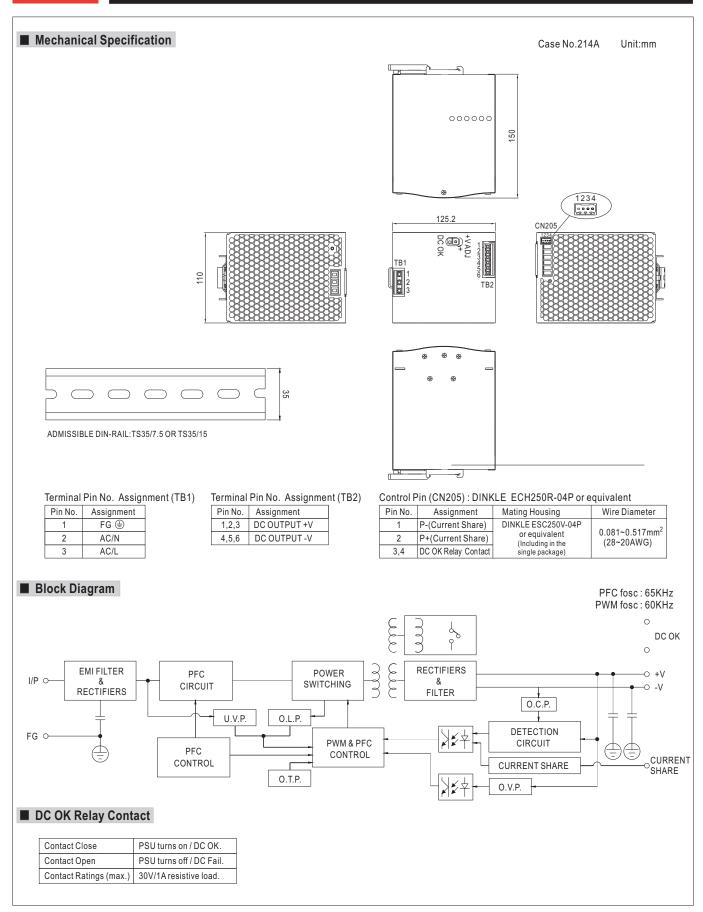


MODEL		SDR-960-24	SDR-960-48	
	DC VOLTAGE	24V	48V	
	RATED CURRENT	40A	20A	
	CURRENT RANGE	0~40A	0~20A	
	RATED POWER	960W	960W	
	PEAK CURRENT	52A	26A	
		1 248W (3sec.)		
UTPUT	RIPPLE & NOISE (max.) Note.2		250mVp-p	
	VOLTAGE ADJ. RANGE	24 ~ 28V	48 ~ 55V	
	VOLTAGE TOLERANCE Note.3		±1.0%	
	LINE REGULATION	±0.5%	±0.5%	
	LOAD REGULATION	±1.0%	±1.0%	
	SETUP, RISE TIME	1000ms, 100ms/230VAC at full load	=11070	
	HOLD UP TIME (Typ.)	14ms / 230VAC at full load		
	VOLTAGE RANGE Note.7 180 ~ 264VAC 254 ~ 370VDC			
	FREQUENCY RANGE	100~204VAC 254~570VDC 47~63Hz		
POWER FACTOR (Typ.)		47 ~ 63HZ PF≥ 0.95/230VAC at full load		
UDUT	EFFICIENCY (Typ.)	94%	94%	
NPUT	AC CURRENT (Typ.)	6A/230VAC	34 /0	
	INRUSH CURRENT (Typ.)	COLD START 50A / 230VAC		
	LEAKAGE CURRENT			
	LEARAGE CORRENT	<.p><3.5mA/240VAC		
		after 30 seconds if the peak load condition is removed	more than 3 seconds and then shut down o/p voltage with auto-recovery	
	OVERLOAD	·	average for more than 2 accords and then shut down a/a valtage to naver	
		Constant current limiting within 130 ~ 150% rated output power for more than 3 seconds and then shut down o/p voltage, re-power		
PROTECTION		on to recover	FO. 051/	
	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°C ±5°C (TSW) detect on heatsink of power switch		
		Protection type: Shut down o/p voltage, recovers automatically after temperature goes down		
UNCTION	DC OK REALY CONTACT RATINGS (max.)	60Vdc/0.3A, 30Vdc/1A, 30Vac/0.5A resistive load		
	CURRENT SHARING			
	WORKING TEMP. Note.5	-30 ~ +70°C (Refer to "Derating Curve")		
	WORKING HUMIDITY	20 ~ 95% RH non-condensing		
NVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +85℃, 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 STANDARDS		UL508, TUV EN60950-1 approved		
AFETY &	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC O/P-DC OK:0.5KVAC		
MC	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:>100M Ohms / 500VDC / 25°C/ 70% RH		
Note 4)	EMC EMISSION Note.8			
	EMC IMMUNITY	Compliance to EN61000-4-2,3.4.5.6.8.11. EN55024. EN610	000-6-2 (EN50082-2), EN61204-3, heavy industry level, criteria A	
	MTBF	Compliand to Entertool 1 2,6, 1,6,6,7,11, Entertool 0 2 (Entertool 2), Enterto 1 6, Hearty Industry forting enterto		
THERS	DIMENSION	110*125.2*150mm (W*H*D)		
· · ·	PACKING	2.47Kq; 6pcs/15.8Kq/1.55CUFT		
NOTE		ally mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.		
OIE	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	ip tolerance, line regulation and load regulation.		
	4. The power supply is consid	dered 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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