## Pollock Industries

#### **Technical Data Sheet**

### Compact 120 Watt 24 Volt Single Output, DIN RAIL Power Supply

# UNIT CODEDESCRIPTIONC-SDR 120-24Compact 120 Watt, 24 Volt, Single Output, DIN RAIL<br/>Power Supply with PFC (GL and SEMI F47 approved)SPECIFICATIONSInputOutputInputOutputApprovalsUniversal AC Input<br/>88~264VAC+24VDC @ 0 ~ 5AImputImputOutputImputCBCECBCE

## Features at a Glance:

High efficiency 91% and high reliability Environmentally friendly, compact and quiet

Slim (40mm), Installed on DIN rail TS35 / 7.5 or 15

Working temperature range (-25 °C ~ +70°C)

Certificates: UL, CUL, TUV, CE, CB, SEMI F47, GL

Built-in: active PFC function (PF>0.93) ; constant current Limiting; DC OK relay contact and LED indicator for power on

Protections: Short circuit, Overload, Over voltage and Over temperature

Complies with GL and SEMI F47 to fulfill requirements for marine and semi-conductor use

Fan-less cooling by natural (free air) convection

Safety & EMC: UL508 (industrial control equip), TUV EN60950-1, EN61000-3-2 for harmonic current and (EN50082-2) industrial immunity

MTBF hours: 289.9K hr min. MIL-HDBK-217F (25 °C)

Case: 992A Weight: 1.47 Lbs. (0.67 Kgs) Dimensions: 1.57" W x 4.9" H x 4.46" D 40x 125.2x 113.5mm

3 year warranty

Release & Application Notes



The Compact C-SDR 120 Series are AC/DC isolation Class I power units for low to medium wattage DIN rail applications that need high performance in a small form-factor. With active PFC and 91% efficiency plus protections against short circuits, overloads, over voltage and over temperature C-SDR 120 is ideal for a wide range of applications incuding factory automation and electro-mechanical and complies with GL and SEMI F47 for marine and semi-conductor fabrication equipment.

With UL 508 (industrial control equipment) approval and a wide operating temperature range the C-SDR-120 series is reliable in most demanding environments.

Pricing	1-9	\$ 139.00
Ū	10+	\$ 115.00
	25+	\$ 99.00

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## POLLOCK INDUSTRIES 120W Single Output Industrial DIN RAIL with PFC Function

## SDR-120 series



#### Features :

- High efficiency 91% and low power dissipation
- 150% peak load capability
- Built-in active PFC function, PF>0.93
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Cooling by free air convection
- Can be installed on DIN rail TS-35/7.5 or 15
- UL 508 (industrial control equipment) approved
- EN61000-6-2(EN50082-2) industrial immunity level
- Built-in DC OK relay contact
- 100% full load burn-in test
- 3 years warranty

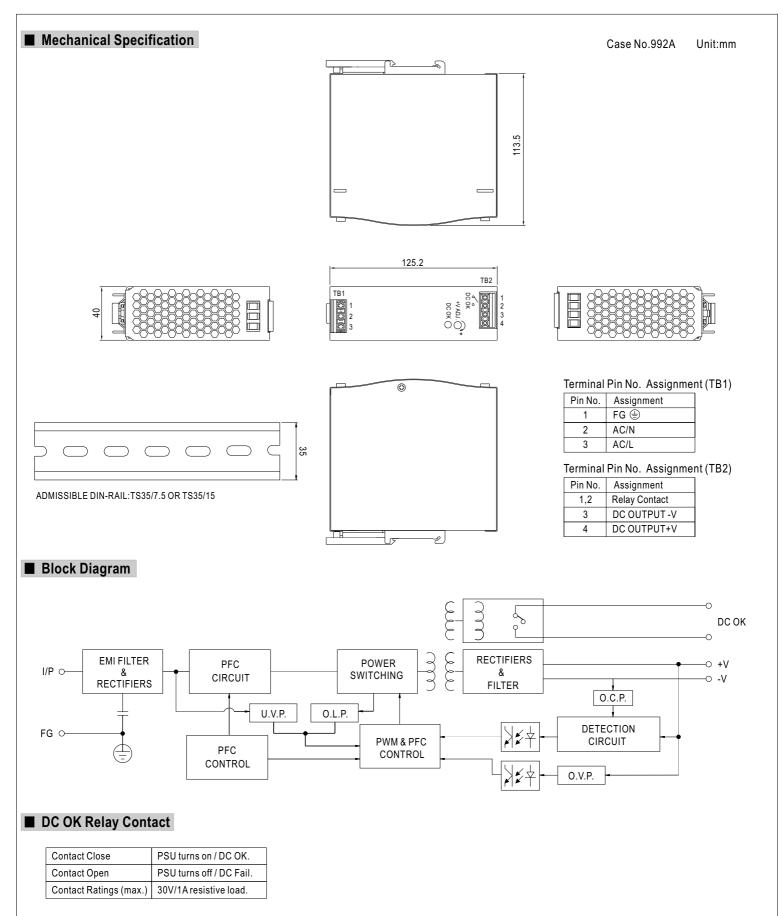


#### SPECIFICATION

SPECIFICATION				1		
MODEL		SDR-120-12	SDR-120-24	SDR-120-48		
	DC VOLTAGE	12V	24V	48V		
	RATED CURRENT	10A	5A	2.5A		
	CURRENT RANGE	0~10A	0 ~ 5A	0~2.5A		
	RATED POWER	120W	120W	120W		
	PEAK CURRENT	15A	7.5A	3.75A		
	PEAK POWER Note.6	180W (3 sec.)	1.01	0.101		
	RIPPLE & NOISE (max.) Note.2					
	VOLTAGE ADJ. RANGE	12~14V	24 ~ 28V	48 ~ 55V		
	VOLTAGE TOLERANCE Note.3		±1.0%	±1.0%		
	LINE REGULATION	±0.5%	±0.5%	±0.5%		
	LOAD REGULATION	±1.0%	±1.0%	±1.0%		
	SETUP, RISE TIME			1.0 %		
	HOLD UP TIME (Typ.)	20ms/230VAC 20ms/115VAC at full load				
INPUT		88 ~ 264VAC 124 ~ 370VDC				
		47 ~ 63Hz				
	POWER FACTOR (Typ.)	0.93/230VAC 0.96/115VAC at full load				
	EFFICIENCY (Typ.)	89%	<mark>91%</mark>	90.5%		
	AC CURRENT (Typ.)	1.4A/115VAC 0.7A/230VAC				
	INRUSH CURRENT (Typ.)	35A/115VAC 70A/230VAC				
	LEAKAGE CURRENT	<1mA/240VAC				
	OVERLOAD	Normally works within 110 ~ 150% rated output power for more than 3 seconds and then shut down o/p voltage				
PROTECTION		>150% rated power, constant current limiting with auto-recovery within 3 seconds and shut down o/p voltage after 3 seconds				
	OVER VOLTAGE	14 ~ 17V	29 ~ 33V	56 ~ 65V		
	UTER TOLIAGE	Protection type : Shut down o/p voltage, re-power on to recover				
	OVER TEMPERATURE	95°C ±5°C (TSW : detect on heatsink of power switch)				
		Protection type : 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				
ENVIRONMENT	WORKING TEMP.	-25 ~ +70 $^\circ \!\!\! \mathbb{C}$ (Refer to "Derating Curve")				
	WORKING HUMIDITY	20 ~ 95% RH non-condensing				
	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 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				
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC O/P-DC OK:0.5KVAC				
SAFETY &	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:>100M Ohms / 500VDC / 25°C/ 70% RH				
EMC (Note 4)	EMC EMISSION	Compliance to EN55022 (CISPR22) Class B, EN61000-3-2,-3				
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, EN61000-6-2 (EN50082-2), EN61204-3, heavy industry level, criteria A, SEMI F47, GL approved				
OTHERS	MTBF	289.9Khrs min. MIL-HDBK-217F (25°C)				
	DIMENSION	40*125.2*113.5mm (W*H*D)				
	PACKING	0.67Kg; 20pcs/14.4Kg/1.16CUFT				
NOTE	<ol> <li>Ripple &amp; noise are measure</li> <li>Tolerance : includes set up</li> <li>The power supply is consid EMC directives.</li> <li>Installation clearances : 40r In case the adjacent device</li> <li>3 seconds max., please refi</li> </ol>	ally mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. ed at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. to tolerance, line regulation and load regulation. dered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets mm on top, 20mm on the bottom, 5mm on the left and right side are recommended when loaded permanently with full power. e is a heat source, 15mm clearance is recommended. fer to peak loading curves. Inder low input voltage. Please check the derating curve for more details.				



## SDR-120 series

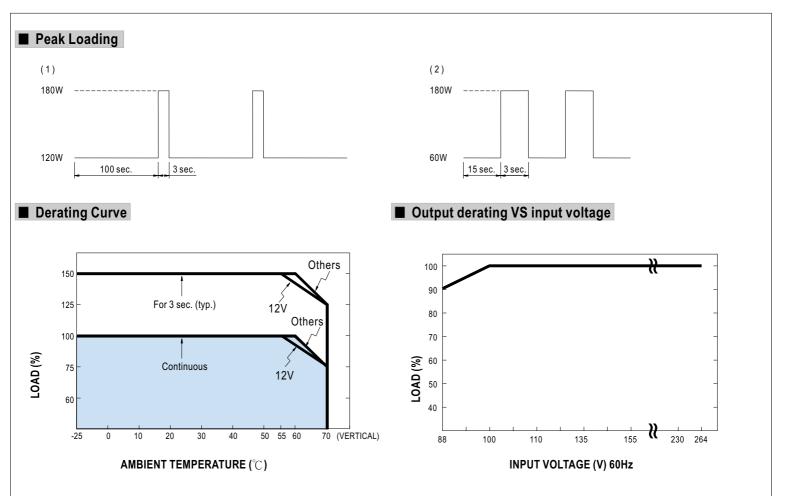


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