# Pollock Industries

Compact 120W 24V DIN RAIL Power Supply With Wide Input Range and Single Output

### **UNIT CODE**

C-WDR 120-24

Wide Input Range 120 Watt, 24 Volt, Single Output Compact DIN RAIL Power Supply with PFC

DESCRIPTION

SPECIFICATIONS						
AC Input	Output	Approvals				
180 ~ 550VAC Single phase 230VAC or any two phases from a 330~550VAC three-phase power system	+24VDC @ 0 ~ 5A					
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### Features at a Glance:

Single and two phase wide input range 180~550VAC

Environmentally friendly, high reliability and quiet

High efficiency 91% and low power dissipation

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

Low temperature power-on ability at -30°C

Built-in: DC OK relay contact - alarm signal output, Constant current limiting circuit, Front panel DC voltage adjustment (100%~115%), LED indicator for power ON

Protections: Short circuit / Over load / Over voltage / Over temperature

Cooling by fan-less natural (free air) convection

100% full load burn-in test

Safety standards: UL508 approved, IEC60950-1 CB approved by SIQ, design refer to GL (marine related)

MTBF hours: 268K hrs MIL-HDBK-217F (25°C)

3 year warranty

Case: 992B

Weight: 1.43 Lbs. (0.65 Kgs)

Dimensions: 1.57" W x 4.9" H x 4.46" D 40 x 125.2 x 113.5mm (W\*H\*D)



C-WDR120 is a 120W AC/DC slim DIN rail power supply that features a wide input range for both single and two phase power systems. With a 180 to 550VAC wide input range, C-WDR-120 can be used in general power system with single phase 230VAC input or can capture any two phases from a 330~550VAC three-phase power system.

The C-WDR series can be operated in marine related installations and areas normally frozen with a low temperature power-on ability at -30°C. Standard functions include DC OK relay contact alarm signal output, front panel LED indicator, front panel DC voltage adjustment, as well as protection for short-circuit, overload, over voltage, and over temperature. C-WDR-120 series has certificates for compliance with UL/CB/CE and also meet the EMC requirements of heavy industry immunity level (EN61000-6-2).

Pricing	1~9	\$ 139.00
	10+	\$ 115.00
	25+	\$ 99.00

POLLOCK INDUSTRIES, INC. 81 Butternut Road, White River, VT 05001 toll-free 1-866-665-5434 (603) 888-2467 sales@pollock.biz



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120W Single Output Industrial DIN RAIL Power Supply WDR-120 series



Features :

- \* Single and two phase wide input range 180  $\sim 550 \text{VAC}$
- 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
- 100% full load burn-in test
- Built-in DC OK relay contact
- 3 years warranty



#### SPECIFICATION

MODEL	ATION			WDD 400 40			
MODEL		WDR-120-12	WDR-120-24	WDR-120-48			
	DC VOLTAGE	12V	24V	48V			
RATED CURRENT		10A	<mark>5A</mark>	2.5A			
	CURRENT RANGE	0 ~ 10A	<mark>0 ~ 5A</mark>	0~2.5A			
OUTPUT	RATED POWER	120W	120W	120W			
	RIPPLE & NOISE (max.) Note.2	120mVp-p	120mVp-p	150mVp-p			
	VOLTAGE ADJ. RANGE	12 ~ 15V	24 ~ 29V	48 ~ 58V			
	VOLTAGE TOLERANCE Note.3	±1.5%	±1.0%	±1.0%			
	LINE REGULATION	±0.5%	±0.5%	±0.5%			
	LOAD REGULATION	±0.5%	±0.5%	±0.5%			
	SETUP, RISE, HOLD UP TIME	2000ms, 70ms, 50ms/400VAC 2000ms, 70ms, 10ms/230VAC at full load					
	VOLTAGE RANGE	180 ~ 550VAC 254 ~ 780VDC					
	FREQUENCY RANGE	47 ~ 63Hz					
	EFFICIENCY (Typ.)	89.5% / 400V	91% / 400V	92% / 400V			
INPUT	AC CURRENT	0.55A/400VAC 1.2A/230VAC		•			
	INRUSH CURRENT (max.)	I CURRENT (max.) COLD START 50A					
	LEAKAGE CURRENT						
		105 ~ 130% rated output power					
	OVERLOAD	Protection type : Constant current limiting, recovers automatically after fault condition is removed					
		16 ~ 18V	<mark>31 ~ 37V</mark>	60 ~ 67V			
PROTECTION	OVER VOLTAGE	Protection type : Shut down o/p voltage, re-power on to recover					
		105°C±5°C(12V),110°C±5°C(24V) (TSW1) detect on heatsink of power transistor ; 100°C±5°C(48V) (TSW1) detect on heatsink of power diode					
	OVER TEMPERATURE	Protection type : Shut down o/p voltage, recovers automatically after temperature goes down					
FUNCTION	DC OK SIGNAL	Relay contact rating(max.): 30V / 1A resistive					
	WORKING TEMP.	-25 ~ +70°C (Refer to output load derating curve)					
	WORKING HUMIDITY	20 ~ 90% RH non-condensing					
ENVIRONMENT	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 clip: Compliance to IEC60068-2-6					
	SAFETY STANDARDS	UL508 approved, IEC60950-1 CB approved by SIQ, design refer to GL					
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC O/P-DC OK:0.5KVAC					
EMC	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C/ 70% RH					
(Note 4)	EMI CONDUCTION & RADIATION Compliance to EN55011 (CISPR11), EN55022 (CISPR22), EN61204-3 Class B						
	EMS IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, ENV50204, EN61204-3, EN61000-6-2 (EN50082-2), heavy industry level, criteria A					
	MTBF	268Khrs min. MIL-HDBK-217F (25°C)					
OTHERS	DIMENSION	40*125.2*113.5mm (W*H*D)					
	PACKING	0.65Kg; 20pcs/14Kg/1.16CUFT					
NOTE	<ol> <li>All parameters NOT specially mentioned are measured at 400VAC input, rated load and 25°C of ambient temperature.</li> <li>Ripple &amp; noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf &amp; 47uf parallel capacitor.</li> <li>Tolerance : includes set up tolerance, line regulation and load regulation.</li> <li>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.</li> <li>Length of set up time is measured at cold first start. Turning ON/OFF the power supply very quick may lead to increase of the set up time.</li> </ol>						

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toll-free 1-866-665-5434

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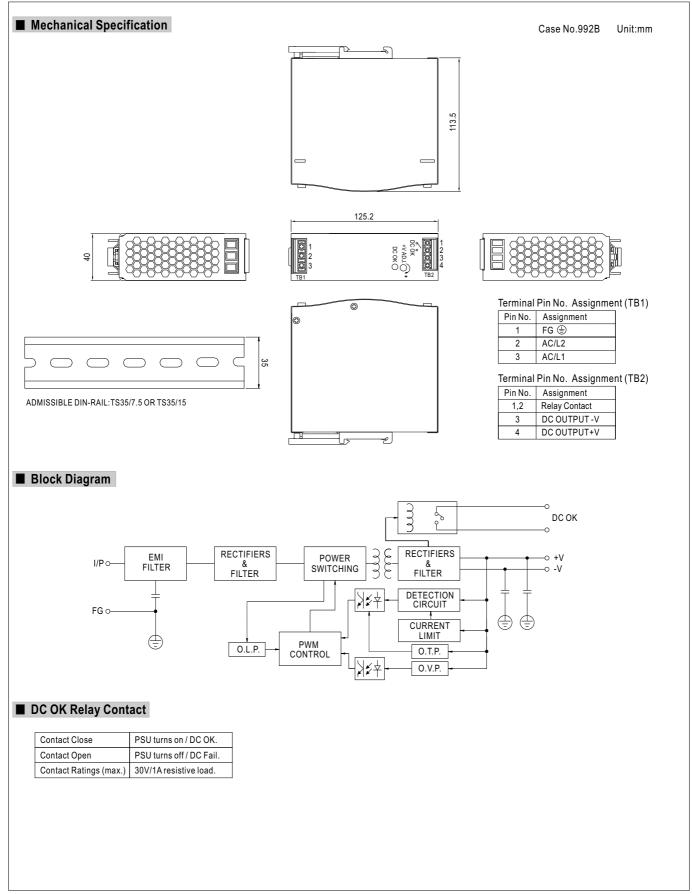
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### Static Characteristics

