Pollock Industries

Compact 480W 48V DIN RAIL Power Supply With Wide Input Range and Single Output

DESCRIPTION

C-WDR 480-48

UNIT CODE

Wide Input Range 480 Watt, 48 Volt, Single Output Compact DIN RAIL Power Supply with PFC

SPECIFICATIONS			
AC Input	Output	Approvals	
180 ~ 550VAC Single Phase 230VAC or any two phases from a 330~550VAC three-phase power system	+48VDC @ 0 ~ 10A	B CB CECE	

Features at a Glance:

Single and two phase wide input range 180~550VAC

Built-in active PFC circuit compliance to EN61000-3-2

High reliability, compact and quiet

High efficiency 92% and low power dissipation

Slim (85mm), 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, Front panel DC voltage adjustment (100%~115%), LED indicator for power ON

Protections: Short circuit / Over load / Over voltage / Over temp.

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: 112.8K hrs MIL-HDBK-217F (25°C)

3 year warranty

Case: 984B Weight: 3.74Lbs. (1.7 Kgs) Dimensions: 3.4" W x 4.9" H x 5.0" D 85.5 x 125.2 x 128.5mm (W*H*D)



C-WDR480 is a 480W 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-480 can be used ir 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-480 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	\$ 375.00
	10+	\$ 367.50
	25+	\$ 349.50

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480W Single Output Industrial DIN RAIL Power Supply

WDR-480 series



Features :

- * Single and two phase wide input range 180~550VAC
- Built-in active PFC circuit compliance to EN61000-3-2
- High efficiency 93% and low power dissipation
- 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

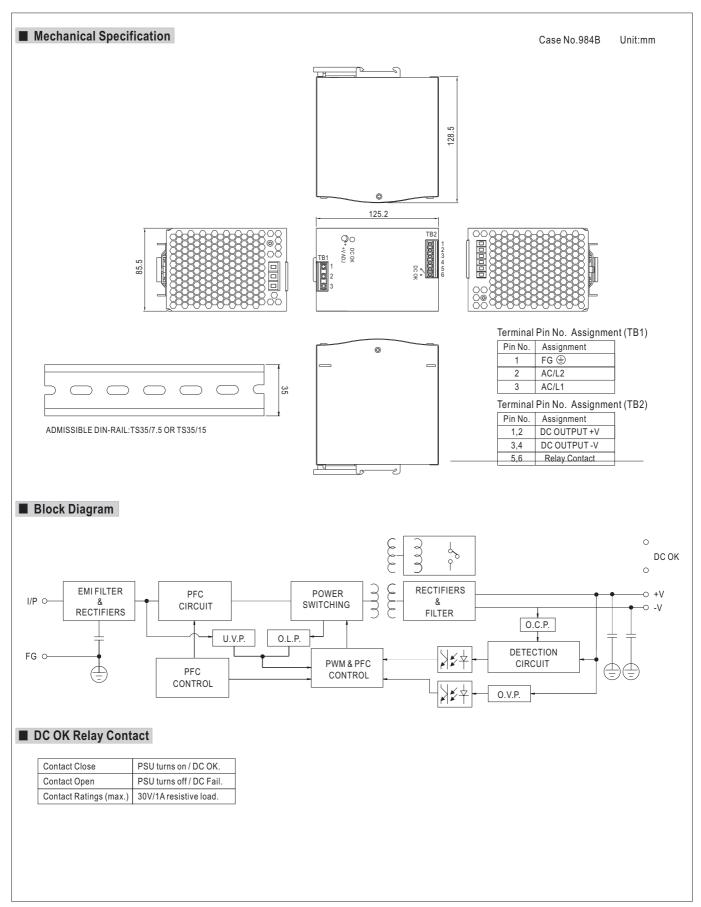


SPECIFICATION

MODEL		WDR-480-24	WDR-480-48		
	DC VOLTAGE	24V	48V		
F	RATED CURRENT	20A	10A		
	CURRENT RANGE	0~20A	0 ~ 10A		
	RATED POWER	480W	480W		
	RIPPLE & NOISE (max.) Note.2	100mVp-p	150mVp-p		
OUTPUT	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	800ms, 150ms/400VAC 2000ms, 150ms/230VAC at full load			
	HOLD UP TIME (Typ.)	18ms / 400VAC 16ms / 230VAC at full load			
	,	180 ~ 550VAC 254 ~ 780VDC			
	FREQUENCY RANGE 47 ~ 63Hz				
	POWER FACTOR (Typ.)	PF≥0.84/400VAC PF≥0.84/230VAC			
INPUT	EFFICIENCY (Typ.)	92%	93%		
	AC CURRENT (Typ.)	1.6A/400VAC 4A/230VAC			
	INRUSH CURRENT (Typ.)	COLD START 50A			
	LEAKAGE CURRENT	3.5mA / 530VAC			
		105 ~ 130% rated output power			
OVERLOAD	OVERLOAD	Protection type : Constant current limiting, unit will shut down after 3 sec. ,auto-recovery after 1 minute if the fault condition is removed			
		29 ~ 33V	56 ~ 65V		
PROTECTION OVER VOLTAGE	OVER VOLTAGE	Protection type : Shut down o/p voltage, auto-recovery after 1 min	nute if the fault condition is removed		
OVER TEMPERATURE		$95^{\circ}C \pm 5^{\circ}C$ (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.)				
	WORKING TEMP. Note.5				
	WORKING HUMIDITY	20 ~ 95% RH non-condensing			
ENVIRONMENT STORAGE TEMP., HUMIDIT					
	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 approved, IEC60950-1 CB approved by SIQ, design refer to GL			
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC O/P-DC OK:0.5KVAC			
EMC	ISOLATION RESISTANCE	//P-O/P. I/P-FG. O/P-FG:>100M Ohms / 500VDC / 25°C / 70% RH			
(Note 4)	EMC EMISSION	Compliance to EN55022 (CISPR22), EN61204-3 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 approved			
MTBF		112.8K hrs min. MIL-HDBK-217F (25℃)			
OTHERS	DIMENSION	85.5*125.2*128.5mm (W*H*D)			
	PACKING	1.7Kg; 8pcs/14.6Kg/0.9CUFT			
NOTE	 All parameters NOT specially mentioned are measured at 400VAC input, rated load and 25°C of ambient temperature. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. Tolerance : includes set up tolerance, line regulation and load regulation. 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. 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. Derating may be needed under low input voltage. Please check the derating curve for more details. 				



WDR-480 series





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