POLLOCK Industries

Compact 240W 48V DIN RAIL Power Supply With Wide Input Range and Single Output

UNIT CODE	DESCRIPTION
C-WDR 240-48	Wide Input Range 240 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 ~ 5A	®®CB(€		

Features at a Glance:

Single and 2-Phase wide input range 180~550VAC

Built-in active PFC - complies w/ EN61000-3-2

High reliability, compact and quiet

High efficiency (91%) and low power dissipation

Slim (63mm), Installed on DIN rail TS35 / 7.5 or 15

Low temperature power-on (-30 °C)

Built-in: constant current limiting circuit

& DC OK relay contact

Protections: Short circuit, Overload,

Over voltage, Over temperature

LED indicator for power on

Cooling by natural (free air) convection

100% full load burn-in test

Safety standards: UL508 approved, IEC60950-1 CB

approved by SIQ, design refer to GL

MTBF hours: 141.1Khrs MIL-HDBK-217F (25°C)

Case: 979B

Weight: 2.33 Lbs. (1.06 Kgs)

Dimensions: 2.48" W x 4.9" H x 4.46" D

63 x 125.2 x 113.5mm (W*H*D)

3 year warranty

Release & Application Notes



C-WDR240 is a 240W AC/DC compact industrial 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-240 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.

Other 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. WDR-240 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 \$ 292 10+ \$ 285 25+ \$ 275

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240W Single Output Industrial DIN RAIL Power Supply

WDR-240 series



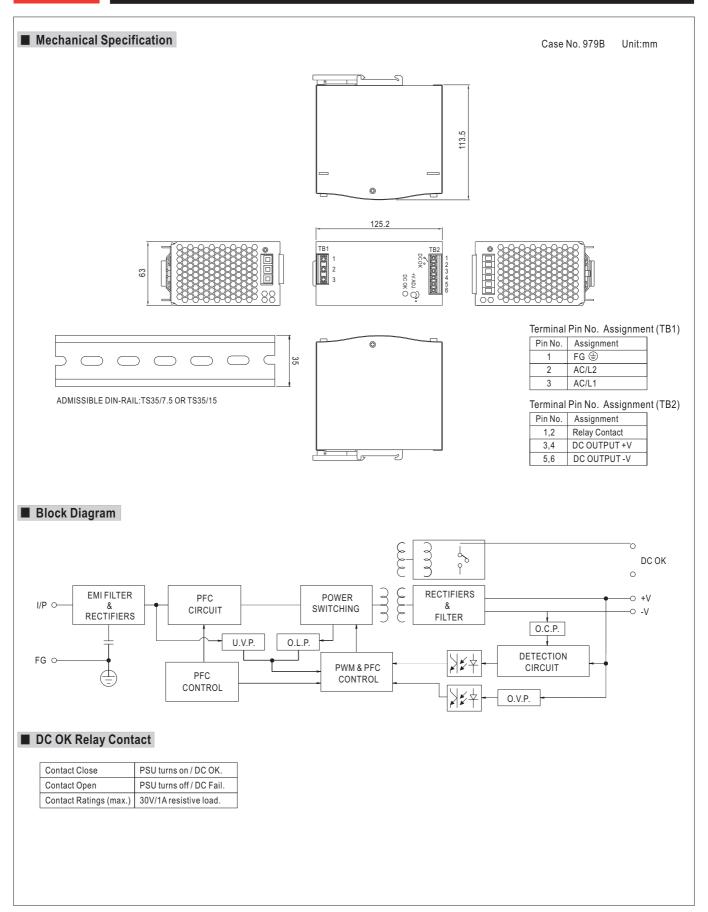
Features:

- Single and two phase wide input range 180~550VAC
- Built-in active PFC circuit compliance to EN61000-3-2
- High efficiency 91% 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



MODEL		WDR-240-24	WDR-240-48	
WIODEL	DC VOLTACE	24V	48V	
	DC VOLTAGE			
	RATED CURRENT	10A	5A	
	CURRENT RANGE	0 ~ 10A	<u>0 ~ 5A</u>	
	RATED POWER	240W	240W	
RIPPLE & NOISE (max.) Note.2			150mVp-p	
OUTPUT	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	800ms, 150ms/400VAC 1500ms, 150ms/230VAC at full load		
	HOLD UP TIME (Typ.)	18ms / 400VAC 18ms / 230VAC at full load		
	VOLTAGE RANGE Note.6	180 ~ 550VAC 254 ~ 780VDC		
	FREQUENCY RANGE 47 ~ 63Hz			
	POWER FACTOR (Typ.) PF≥0.84/400VAC PF≥0.84/230VAC			
INPUT	EFFICIENCY (Typ.)			
	AC CURRENT (Typ.) 1A/400VAC 2A/230VAC INRUSH CURRENT (Typ.) COLD START 50A			
	LEAKAGE CURRENT	<3.5mA / 530VAC		
		105 ~ 130% rated output power		
	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 mi	[· · · · · · · · · · · · · · · · · · ·	
		90°C ±5°C (TSW) detect on heatsink of power switch		
OVER TEMPERATURE		Protection type: Shut down o/p voltage, recovers automatically after temperature goes down		
FUNCTION	DO OV DEALY CONTACT DATINGS ()			
FUNCTION	DC OK REALY CONTACT RATINGS (max.)			
WORKING TEMP. Note.				
	WORKING HUMIDITY	20 ~ 95% RH non-condensing		
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH		
	TEMP. COEFFICIENT			
	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	I/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		141.1K hrs min. MIL-HDBK-217F (25℃)		
OTHERS	DIMENSION	63*125.2*113.5mm (W*H*D)		
	PACKING	1.06Kg; 12pcs/13.7Kg/1.06CUFT		
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-240 series



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