Pollock Industries

960 Watt, 48 Volt, Three Phase Input Single Output, DIN RAIL Power Supply

UNIT CODE	DESCRIPTION	
TDR 960-48	960 Watt, 48 Volt, Three Phase, Single Output, DIN RAIL Power Supply	

SPECIFICATIONS			
AC Input	Output	Approvals	
Three-Phase (340~550VAC Input Range)	+48VDC @ 0~20A	CBCE	

Features at a Glance:

Three-Phase AC 340 ~ 550V wide range input High efficiency 91% and low power dissipation Protections: Short circuit / Over load / Over voltage / Over temperature

LED indication for power on

Quiet - Cooling by natural (free air) convection Operational Temperature range: -20 ~ +70°C Installed on DIN rail TS35 / 7.5 or 15 100% full load burn-in test

Safety standards: UL508, UL60950-1 TUV EN60950-1 approved

EMC: EN61000-6-2 (EN50082-2) industrial Immunity (See following pages for full EMC details)

Certificates: UL / CUL / TUV / CB / CE

MTBF hours: 91.1K hrs. MIL-HDBK-217F (25°C)

Case: 930A

Weight: 5.51Lbs. (2.5 Kgs)

Dimensions: 8.93" W x 4.9" H x 3.93" D 227 x 125.2 x 100mm (W*H*D)

3 year warranty

Similar Compact version: C-WDR 960W-48V



TDR 960 fulfills requirements for high output, economical, 3-phase industrial DIN rail power units that are efficient (91%) and quiet.

Can be operated at the full load of 960W at up ambient temperatures up +45°C (or up to +60°C with some power derating). Other standard features include optional parallel function (1 + 1) wide operational temperature range, and protections for short-circuit, overload, over voltage, and over temperature.

Suitable applications include general telecom, factory automation, electro-mechanical, IT, security, data communications and control panel applications, and any installations with fan-less or low noise requirements.

Pricing 1 ~ 9 \$ 449.00 10+ \$ 419.50 25+ \$ 392.00





■ Features :

- Three-Phase AC 340 ~ 550V wide range input
- High efficiency 91% and low dissipation
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Optional parallel function(1+1)
- 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
- 100% full load burn-in test
- 3 years warranty



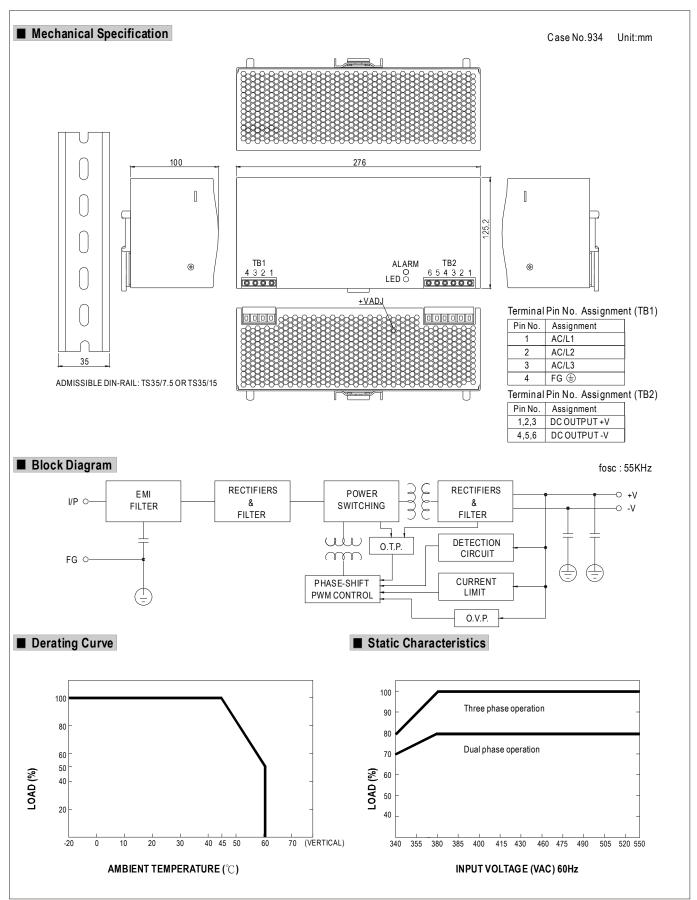




SPECIFICATION

MODEL		DRT-960-24	DRT-960-48	
	DC VOLTAGE	24V	48V	
	RATED CURRENT	40A	20A	
	CURRENT RANGE	0 ~ 40A	0~20A	
	RATED POWER	960W	960W	
	RIPPLE & NOISE (max.) Note.2	80mVp-p	80mVp-p	
OUTPUT	VOLTAGE ADJ. RANGE	24 ~ 28V	48 ~ 55 V	
	VOLTAGE TOLERANCE Note.3	±1.0%	±1.0%	
	LINE REGULATION	±0.5%	±0.5%	
	LOAD REGULATION	±0.5%	±0.5%	
	SETUP, RISE TIME	200 ms, 60 ms/400 VAC 200 ms, 60 ms/500 VAC at full load		
	HOLD UP TIME (Typ.)	14ms/400VAC 30ms/500VAC at full load		
	VOLTAGE RANGE	Three-Phase 340 ~ 550 VAC (Dual phase operation possible in connecting L1,L3,FG Note.5)		
	FREQUENCY RANGE	47 ~ 63Hz		
	EFFICIENCY (Typ.)	91%	92%	
INPUT	AC CURRENT (Typ.)	2A/400VAC 1.6A/500VAC		
	INRUSH CURRENT (max.)	COLD START 50A		
	LEAKAGE CURRENT <3.5mA/530VAC			
		105 ~ 125% rated output power		
	OVERLOAD	Protection type: Constant current limiting, unit will shut down o/p	voltage after 3 sec. , re-power on to recover	
	OVER VOLTAGE	30 ~ 36V	59~66V	
PROTECTION		Protection type: Shut down o/p voltage, re-power on to recover		
	OVER TEMPERATURE	110 °C ±5 °C (TSW1) detect on heatsink of power transistor 85 °C ±5 °C (TSW2) detect on heatsink of power diode		
		Protection type: Shut down o/p voltage, recovers automatically after temperature goes down		
	WORKING TEMP20 ~ +60°C (Refer to "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: Compliance to IEC60068-2-6		
	SAFETY STANDARDS	Y STANDARDS UL508, UL60950-1, TUV EN60950-1 approved		
SAFETY&	WITHSTAND VOLTAGE			
EMC				
(Note 4)	EMC EMISSION	Compliance to EN55011 (CISPR11), EN55022 (CISPR22), EN61	204-3 Class B, EN61000-3-2,-3	
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, EN61204-3, EN61000-6-2 (EN50082-2), heavy industry level, criteria A		
	MTBF	122.5K hrs min. MIL-HDBK-217F (25°ℂ)		
OTHERS	DIMENSION	276*125.2*100mm (W*H*D)		
	PACKING	3.3Kg; 4pcs/14.2Kg/1.14CUFT		
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. Dual phase operation(connecting L1,L3,FG)is allowed under certain derating to output load. Please refer to the derating curves for details. 			

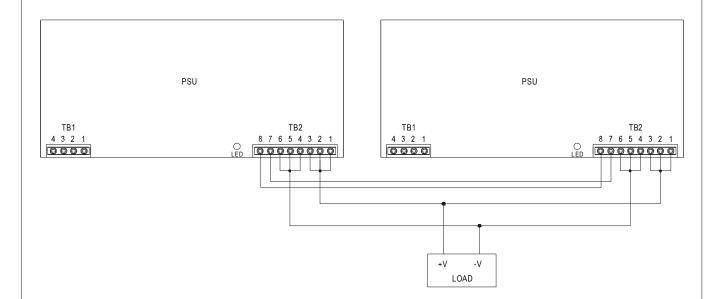






■ Parallel Function (1+1)-Optional (Special order required)

When in parallel operation, the minimum output load should be greater than 3% of total output load. (Min. load >3% rated current per unit x number of unit)



TB1 Terminal Pin No. Assignment

Pin No.	Assignment
1	AC/L1
2	AC/L2
3	AC/L3
4	FG 🖶

TB2 Terminal Pin No. Assignment

Pin No.	Assignment
1,2,3	DC OUTPUT +V
4,5,6	DC OUTPUT -V
7	GND
8	P(Current Share)

Note: Under parallel operation, if the load current is too small, only one PSU (master) would provide the power and hence the LED indicator of other PSUs may not light up.