User's Manual



1

960W Three Phase Industrial DIN RAIL with PFC Function

Features :

..... MW

• Three-Phase 340 ~ 550VAC wide range input (Dual phase operation possible) • Width only 110mm Built-in active PFC function compliance to BS EN/



TDR-960 series

- High efficiency 94.5% and low power dissipation
- · 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
- * BS EN/EN61000-6-2(BS EN/EN50082-2) industrial immunity level
- Current sharing up to 3840W(3+1)
- Built-in DC OK relay contact
- 100% full load burn-in test
- 3 years warranty

EN61000-3-2

GTIN CODE

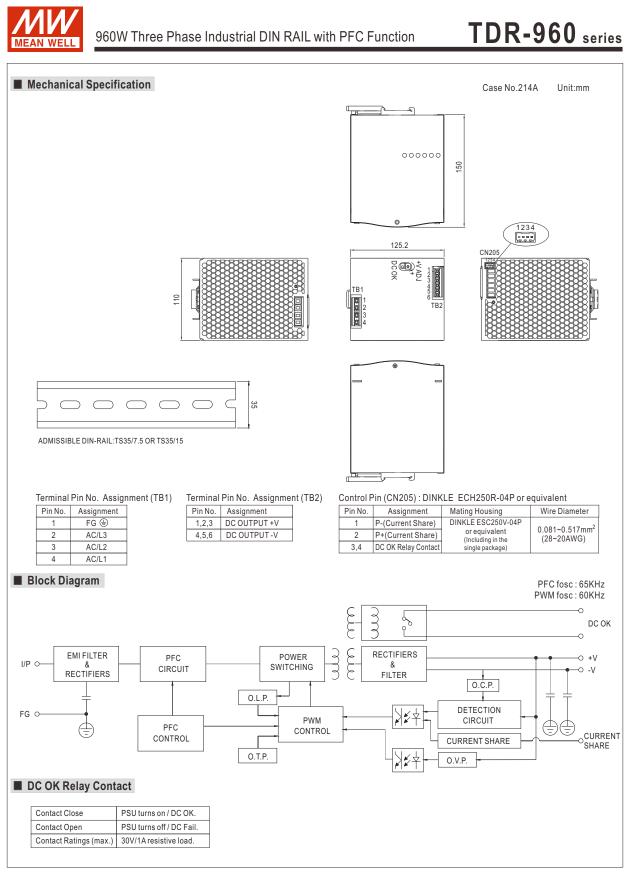
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SPECIFICATION

MW S	Search: <u>https://www.meanwell.com</u>	m/serviceGTIN.aspx		
MODEL		TDR-960-24	TDR-960-48	
OUTPUT	DC VOLTAGE	24V	48V	
	RATED CURRENT	40A	20A	
	CURRENT RANGE	0~40A	0~20A	
	RATED POWER	960W	960W	
	RIPPLE & NOISE (max.) Note.2		250mVp-p	
	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	1000ms, 100ms/400VAC 800ms, 100ms/500VAC		
	HOLD UP TIME (Typ.)	12ms / 400VAC 14ms / 500VAC at full load		
	VOLTAGE RANGE Note.4			
INPUT	FREQUENCY RANGE	47 ~ 63Hz		
	POWER FACTOR (Typ.)	47 ~ 63HZ PF≧0.88/400VAC PF≧0.86/500VAC at full load		
		94%		
	EFFICIENCY (Typ.)		94.5%	
	AC CURRENT (Typ.)	2A/400VAC 1.4A/500VAC		
	INRUSH CURRENT (Typ.)	COLD START 60A		
	LEAKAGE CURRENT	<3.5mA / 530VAC		
PROTECTION	OVERLOAD	105 ~ 130% rated output power		
		Protection type : Constant current limiting, unit will sh		
	OVER VOLTAGE	29 ~ 33V	56 ~ 65V	
		Protection type : Shut down o/p voltage, re-power on		
	OVER TEMPERATURE	Shut down o/p voltage, recovers automatically after temperature goes down		
FUNCTION	DC OK REALY CONTACT RATINGS (max.)			
	CURRENT SHARING	Please refer to function manual		
ENVIRONMENT	WORKING TEMP. Note.5			
	WORKING HUMIDITY	20 ~ 95% RH non-condensing		
	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH non-condensing		
	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 &	SAFETY STANDARDS	UL508, AS/NZS62368.1, EAC TP TC 004 approved, IEC62368-1 CB approved by SIQ; Design refer to BS EN/EN62368-1		
	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			
(Note 6)	EMC EMISSION	Compliance to BS EN/EN55032 (CISPR32), BS EN/EN61204-3 Class B, BS EN/EN61000-3-2,-3, EAC TP TC 020		
	EMC IMMUNITY	Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN55024, BS EN/EN61000-6-2 (BS EN/EN50082-2), BS EN/EN61204-3, heavy industry level, EAC TP TC 020		
OTHERS	MTBF	647.1K hrs min. Telcordia SR-332 (Bellcore) ; 59.5	K hrs min. MIL-HDBK-217F (25°C)	
	DIMENSION	110*125.2*150mm (W*H*D)		
	PACKING	2.47Kg;6pcs/15.8Kg/1.47CUFT		
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. Dual phase operation is allowed under certain derating to output load. Please refer to derating curves for details. 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. 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. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft). Yeroduct Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx 			

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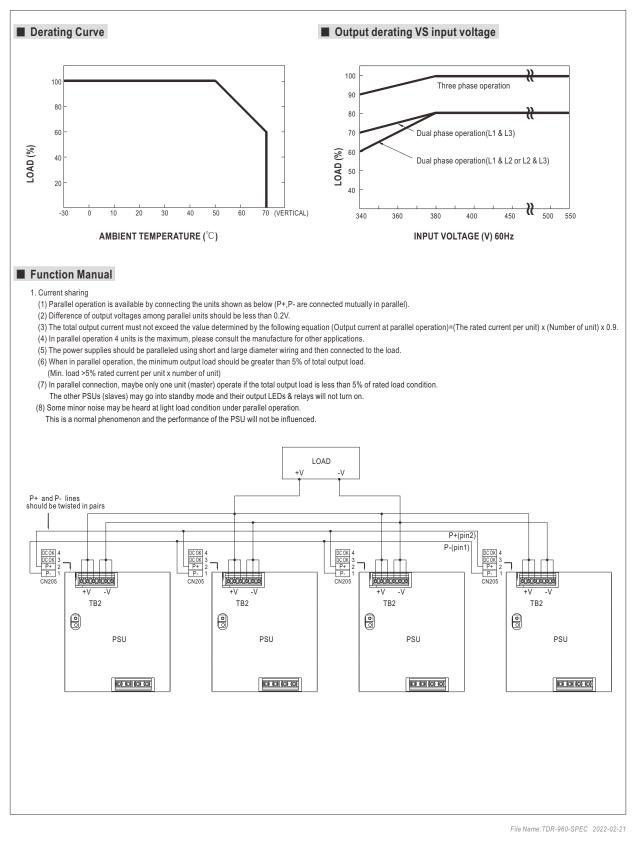
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TDR-960 series



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