

### 960W Three Phase Industrial DIN RAIL with PFC Function

# TDR-960 series



Features :

- Three-Phase 340 ~ 550VAC wide range input (Dual phase operation possible)
- Width only 110mm
- Built-in active PFC function compliance to BS EN/ EN61000-3-2
- 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



### GTIN CODE

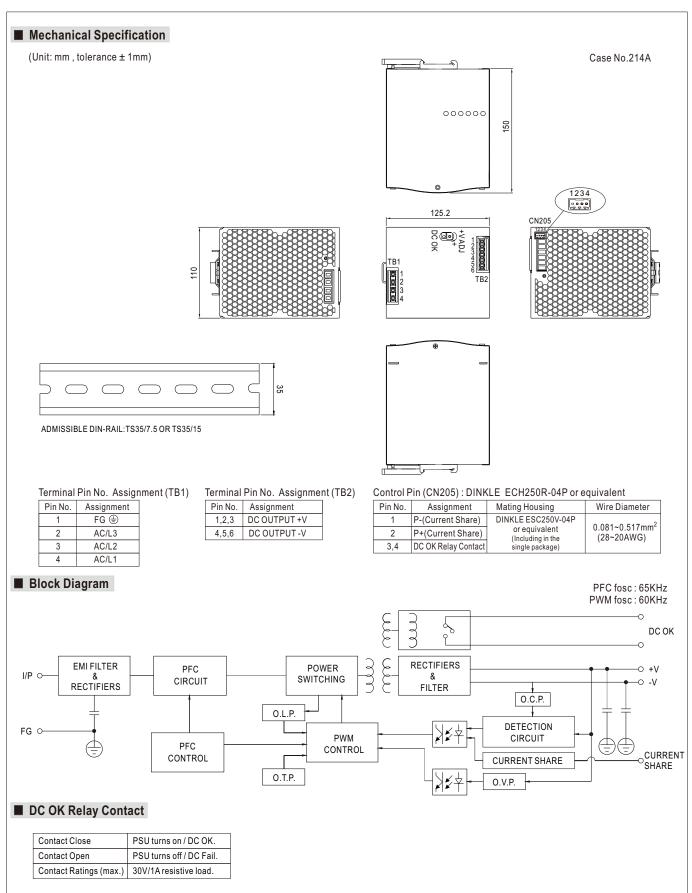
MW Search: https://www.meanwell.com/serviceGTIN.aspx

#### SPECIFICATION

ATION		UL508 TPTC004 IEC62368-1
	TDR-960-24	TDR-960-48
DC VOLTAGE	24V	48V
RATED CURRENT	40A	20A
CURRENT RANGE	0~40A	0~20A
RATED POWER	960W	960W
	180mVp-p	250mVp-p
,		48 ~ 55V
		±1.0%
		±0.5%
	,	±1.0%
,		94.5%
		94.5%
LEAKAGE CURRENT		
OVERLOAD PROTECTION OVER VOLTAGE		
	Protection type : Constant current limiting, unit will shut down after 3 sec. ,re-power on to recover	
OVER TEMPERATURE	Shut down o/p voltage, recovers automatically after temperature goes down	
DC OK REALY CONTACT RATINGS (max.)		
CURRENT SHARING		
WORKING TEMP. Note.5		
WORKING HUMIDITY	20 ~ 95% RH non-condensing -40 ~ +85 °C, 10 ~ 95% RH non-condensing	
STORAGE TEMP., HUMIDITY		
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, 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	
ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:>100M Ohms / 500VDC / 25°C/ 70% RH	
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	
MTBF	647.1K hrs min. Telcordia SR-332 (Bellcore) ; 59.5K hrs min. MIL-HDBK-217F ( $25^{\circ}$ C)	
DIMENSION	110*125.2*150mm (W*H*D) 2.47Kg ; 6pcs/15.8Kg/1.47CUFT	
PACKING		
<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 0.1 µ F &amp; 47 µ F parallel capacitor.</li> <li>Tolerance : includes set up tolerance, line regulation and load regulation.</li> <li>Dual phase operation is allowed under certain derating to output load. Please refer to derating curves for details.</li> <li>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.</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. (as available on https://www.meanwell.com//Upload/PDF/EMI_statement_en.pdf )</li> <li>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).</li> <li>Product Liability Disclaimer : For detailed information, please refer to thps://www.meanwell.com/serviceDisclaimer.aspx</li> </ol>		
	DC VOLTAGE RATED CURRENT CURRENT RANGE RATED POWER RIPPLE & NOISE (max.) Note.2 VOLTAGE ADJ. RANGE VOLTAGE TOLERANCE Note.3 LINE REGULATION LOAD REGULATION SETUP, RISE TIME HOLD UP TIME (Typ.) VOLTAGE RANGE Note.4 FREQUENCY RANGE POWER FACTOR (Typ.) EFFICIENCY (Typ.) AC CURRENT (Typ.) INRUSH CURRENT (Typ.) LEAKAGE CURRENT OVER VOLTAGE OVER VOLTAGE OVER VOLTAGE COVER TEMPERATURE DC 0K REALY CONTACT RATINGS (max.) CURRENT SHARING WORKING TEMP. Note.5 WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION EMC IMMUNITY MTBF DIMENSION PACKING 1. All parameters NOT special 2. Ripple & noise are measure 3. Tolerance : includes set up 4. Dual phase operation is allo Please refer to derating curres To a temperature de EMC directives. (as availab) 7. The ambient temperature de	TDR-960-24           DC VOLTAGE         24V           RATED CURRENT         40A           CURRENT RANGE         0 ~ 40A           RATED POWER         960W           RIPLE & NOISE (max.) Note:         180m/P-p           VOLTAGE ADJ. RANGE         24 ~ 28V           VOLTAGE TOLERANCE Note:         ± 1.0%           LINE REGULATION         ± 0.5%           LOAD REGULATION         ± 1.0%           VOLTAGE RANCE Note:         12ms / 400VAC           YOUTAGE RANCE         Y ~ 63H2           POWER FACTOR (Typ.)         12ms / 400VAC           TRUENCY RANGE         47 ~ 63H2           POWER FACTOR (Typ.)         P ≥ 0.88/400VAC           POWER FACTOR (Typ.)         94%           AC CURRENT (Typ.)         2A/400VAC           AC CURRENT (Typ.)         2A/400VAC           INRUSH CURRENT (Typ.)         COLD START 60A           LEAKAGE CURRENT         <3.5mA / 530VAC



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