







- Three-Phase 340 ~ 550VAC wide range input (Dual phase operation possible)
- · Width only 85.5mm
- Built-in active PFC function 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
- · Built-in constant current limiting circuit
- · Can be installed on DIN rail TS-35/7.5 or 15
- · UL508(industrial control equipment)approved
- EN61000-6-2(EN50082-2) industrial immunity level
- · Optional DC OK relay contact
- · 3 years warranty

Automate









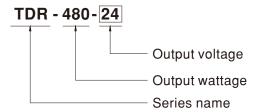
Applications

- · Industrial control system
- Semiconductor fabrication equipment
- Factory automation
- Electro-mechanical apparatus

Description

TDR-480 is one economical slim 480W DIN rail power supply series, adapt to be installed on TS-35/7.5 or TS-35/15 mounting rails. The body is designed 85.5mm in width, which allows space saving inside the cabinets. The entire series adopts the full range AC input from 3ψ 340VAC to 550VAC (Dual Phase operation possible) and conforms to EN61000-3-2, the norm the European Union regulates for harmonic current. TDR-480 is designed with metal housing that enhances the unit's power dissipation. With working efficiency up to 93 %, the entire series can operate at the ambient temperature between -20°C and 70°C under air convection. It is equipped with constant current mode for overload protection, fitting various inductive or capacitive applications. The complete protection functions and relevant certificates for industrial control apparatus (UL508, IEC 60950-1 CB approved by UL.) make TDR-480 a very competitive power supply solution for industrial applications.

Model Encoding

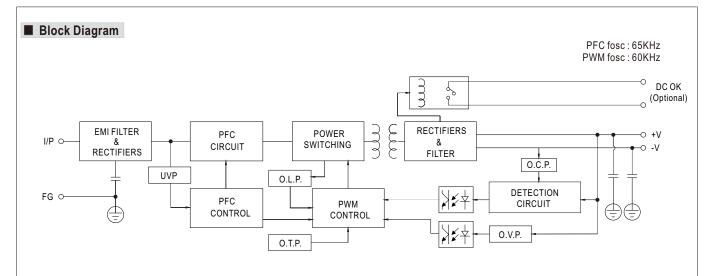




SPECIFICATION

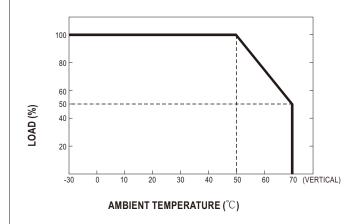
MODEL		TDR-480-24	TDR-480-4	TDR-480-48				
	DC VOLTAGE	24V	48V					
	RATED CURRENT	20A	10A					
	CURRENT RANGE	0~20A	0 ~ 10A	~ 10A				
	RATED POWER	480W	480W	W				
	RIPPLE & NOISE (max.) Note.2	150mVp-p	150mVp-p	150mVp-p				
OUTPUT	VOLTAGE ADJ. RANGE	24 ~ 28V	48 ~ 55V					
	VOLTAGE TOLERANCE Note.3	±1.0%	±1.0%					
	LINE REGULATION	±0.5%	±0.5%	±0.5%				
	LOAD REGULATION	±1.0%		±1.0%				
	SETUP, RISE TIME	1200ms, 60ms/400VAC 800ms, 60ms/500VAC at full load						
	HOLD UP TIME (Typ.)	20ms / 400VAC 20ms / 500VAC at full load						
		Three-Phase 340 ~ 550VAC (Dual phase operation possible) 480 ~ 780VDC						
	FREQUENCY RANGE	47 ~ 63Hz						
	POWER FACTOR (Typ.)	PF≥0.9/400VAC PF≥0.88/500VAC at full load						
INPUT	EFFICIENCY (Typ.)	92.5%	93%					
INFUI	AC CURRENT (Typ.)	0.85A/400VAC 0.7A/500VAC	0070	93%				
	INRUSH CURRENT (Typ.)	COLD START 50A						
	LEAKAGE CURRENT							
	LLANAGE CONNENT	<3.5mA / 530VAC						
	OVERLOAD	105 ~ 130% rated output power						
PROTECTION		Protection type: Constant current limiting, unit will shut down after 3 sec. ,re-power on to recover						
PROTECTION	OVER VOLTAGE	29 ~ 33V 56 ~ 65V Protection type: Shut down o/p voltage, re-power on to recover						
	OVER TEMPERATURE	Shut down o/p voltage, recovers autom	• •					
	OVER TEMPERATURE							
	WORKING TEMP. Note.5							
	WORKING HUMIDITY	20 ~ 95% 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	UL508, IEC60950-1 CB approved by UL						
SAFETY &	WITHSTAND VOLTAGE I/P-O/P:3KVAC I/P-FG:2KVAC O/P-G:0.5KVAC O/P-DC OK(optional):0.5KVAC							
EMC (Note 4)	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:>100M Ohms Parameter	Standard		Test Level / Note			
(Note 4)	EMC EMISSION	Conducted		ENG1204.2				
		Radiated	EN55022 (CISPR22), EN55032(CISPR32) (EN55022 (CISPR22), EN55032(CISPR32) (CISPR32) (CI					
		T to did to d		EN01204-3				
		Harmonic Current	EN61000-3-2		Class A			
		Voltage Flicker EN61000-3-3						
	EMC IMMUNITY	EN55024 , EN60601-1-2, EN61204-3	Oten dend		Total cool/Note			
		Parameter	Standard		Test Level / Note			
		ESD	EN61000-4-2		Level 4, 15KV air ; Level 4, 8KV contact			
		Radiated Field	EN61000-4-3		Level 3			
		EFT / Burst	EN61000-4-4		Level 3			
		Surge	EN61000-4-5		Level 4, 2KV / Line-Line, Level 4, 4KV/ Line-Ear			
		Conducted	EN61000-4-6		Level 3			
		Magnetic Field	EN61000-4-8		Level 4			
		Voltage Dips and Interruptions	EN61000-4-11		>95% dip 0.5 periods, 30% dip 25 periods> 95% interruptions 250 periods			
OTHERS	MTBF	391.7K hrs min. Telcordia SR-332(Bellcore) ; 108.2K hrs min. MIL-HDBK-217F (25°C)						
	DIMENSION	85.5*125.2*128.5mm (W*H*D)						
	PACKING	1.51Kg; 8pcs/13Kg/1.16CUFT						
NOTE	Ripple & noise are measure Tolerance : includes set up Dual phase operation is allow Please refer to derating cure Installation clearances : 40r	T specially mentioned are measured at 400VAC input, rated load and 25°C of ambient temperature. measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. se set up tolerance, line regulation and load regulation. ion is allowed under certain derating to output load. ating curves for details. ces : 40mm on top, 20mm on the bottom, 5mm on the left and right side are recommended when loaded permanently with full power. nt device is a heat source, 15mm clearance is recommended. is considered as an independent unit, but the final equipment still need to re-confirm that the whole system complies with the or guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies." www.meanwell.com)						

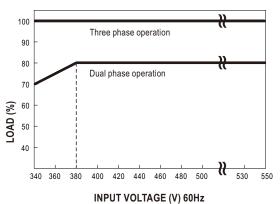




■ Derating Curve

■ Output derating VS input voltage





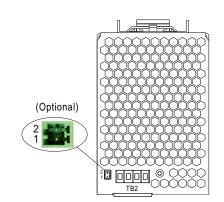
■ DC OK Relay Contact (Optional)

Contact Close	PSU turns on / DC OK.		
Contact Open	PSU turns off / DC Fail.		
Contact Ratings (max.)	60VDC/0.3A, 30VDC/1A, 30VAC/0.5A resistive load.		

Control Pin (Optional): DINKLE ECH250R-02P or equivalent (CN25)

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Pin No.	Assignment	Mating Housing		Wire Diameter
1,2	DC OK Relay Contact	Dinkle ESC250V-02P or equivalent (Including in the package)	D	0.081~0.517mm ² (20~28AWG)

% Please contact MEAN WELL for more details.





■ Mechanical Specification Case No.984E Unit:mm Top View 85.5 128.5 1 2 3 4 0.000 125.2 O DC OK Side View Front View Side View Terminal Pin No. Assignment (TB1) Pin No. | Assignment PE 🖶 AC/L3 2 AC/L2 4 AC/L1 Terminal Pin No. Assignment (TB2) Pin No. Assignment DC OUTPUT +V 1,2 3,4 DC OUTPUT-V **Bottom View** ■ Installation Instruction This series fits DIN rail TS35/7.5 or TS35/15. For installation details, please refer to the Instruction manual. 000 ADMISSIBLE DIN-RAIL:TS35/7.5 OR TS35/15 (For reference only. Not included with unit.)

■ Installation Manual

Please refer to: http://www.meanwell.com/manual.html

Back View