TDR Series

XTR series with 12V, 36V now available!

240W ~ 960W Slim 3-phase Input Range

48V at 5A, 10A, 20A also available

Power Supply Features

- 3-phase, 340~550VAC wide range input (2-phase and DC operation also possible)
- Built-in "active" PFC (except TDR-240 – "passive")
- High efficiency up to 94.5%
- Protection: 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/UL61010-1 industrial control equipment approved
- Current sharing up to 3840W (3+1) for TDR-960
- Built-in DC OK relay contact (optional on TDR-480)
- **3 year warranty**

General Specifications (Please refer to www.procontechnology.com.au for detailed specs)

Model No.		TDR-240	TDR-480	TDR-960
AC input voltage range		3-phase 340~550VAC (2-phase operation possible); 480~780VDC		
AC input current		0.69A / 400VAC, 0.6A / 500VAC	0.85A / 400VAC, 0.7A / 500VAC	2.0A / 400VAC, 1.4A / 500VAC
AC inrush current (typ.)		Cold start, 50A		Cold start, 60A
DC adjustment range		**24V:** 24~28V, **48V:** 48~55V		
Overload protection		105~130% rated output power, constant current limiting, unit will shut down after 3 sec., re-power on to recover 105~130% rated output power, constant current limiting, unit will hiccup after 3 sec. (TDR-240)		
Over voltage protection	Range	**24V:** 30~36V, **48V:** 56~65V	**24V:** 29~33V, **48V:** 56~65V	
	Type	Shut down o/p voltage, re-power on to recover (TDR-480/960) Hiccup mode, recovers automatically after fault is removed (TDR-240)		
Over temp. protection		Shut down output voltage, recovers automatically after temperature goes down		
Withstand voltage		I/P-O/P: 4.87kVAC, I/P-FG: 2.4kVAC, O/P-FG: 0.5kVAC, O/P-DC OK: 0.5kVAC	I/P-O/P: 3kVAC, I/P-FG: 2kVAC, O/P-FG: 0.5kVAC, O/P-DC OK: 0.5kVAC (TDR-960; optional for TDR-480)	
Isolation resistance		100MΩ (min.) @500VDC		
Working temperature		-30°C ~ +70°C (refer to output derating curve)		
DC OK signal		Relay Contact 30VDC 1A 30VAC 0.5A resistive load (optional for TDR-480)		
Leakage current		< 2mA at 530VAC	< 3.5mA at 530VAC	
Vibration		10~500Hz, 2G 10 minutes / 1 cycle, period of 60 minutes each a long X, Y, Z axes		
Safety standards		UL61010-1, UL61010-2-201, EN61558-2-16 AS/NZS62368.1, EAC TP TC 004 approved	UL508, IEC62368-1, AS/NZS62368.1, EAC TP TC 004 approved UL62368.1 for TDR-480	
EMC standards		EN55032 class B, EN61000-3-2, 3, EN61000-4-2, 3, 4, 5, 6, 8, 11, EN61204-3, EN55024, EN61000-6-2, EAC TP TC 020, heavy industry level		
Connection		I/P: 4 poles, O/P: 4 poles screw DIN terminals		I/P: 4 poles, O/P: 6 poles
Dimensions (WxHxD)		63x125.2x113.5mm	85.5x125.2x128.5mm	110x125.2x150mm
Weight		1kg	1.51kg	2.47kg

TDR-240 Series

Model No.	Output	Tol.	R&N	Eff.
TDR-240-24	24V, 0~10A	±1.0%	100mV	92%
TDR-240-48	48V, 0~5A	±1.0%	120mV	92%

TDR-480 Series

Model No.	Output	Tol.	R&N	Eff.
TDR-480-24	24V, 0~20A	±1.0%	150mV	92.5%
TDR-480-48	48V, 0~10A	±1.0%	150mV	93%

TDR-960 Series

Model No.	Output	Tol.	R&N	Eff.
TDR-960-24	24V, 0~40A	±1.0%	180mV	94.0%
TDR-960-48	48V, 0~20A	±1.0%	250mV	94.5%

TDR vs. DRT (old series)

Series \ Difference	Dimension (width)	Working Temp.
TDR	63~110mm by model	-30~+70°C
DRT	125.2~276mm by model	-20~+60°C/+70°C

Tol = voltage tolerance; R&N = Ripple & Noise (peak to peak); Eff = Efficiency