XDR-E Series 75~960W Ultra Slim Industrial DIN Rail Series

XDR-75E XDR-120E XDR-150E XDR-240E XDR-480E XDR-960E

CNS15598-1 GB4943.1 TPTC004

Power Supply Features

- High efficiency – up to 96%
- Ultra slim design from 30mm to 96mm
- Universal AC input (XDR-75E~480E)
  AC input 180~264VAC (XDR-960E)
- Built-in active PFC (XDR-240E~960E)
- Protection: Short circuit / Overload /
  Over voltage / Over temperature
- Fan-less design, cooling by free air convection
- Can be installed on DIN rail TS-35/7.5 or 15
- Certified for multiple international standards
- EN61000-6-2(EN50082-2) industrial immunity level
- Built-in DC OK relay contact
- OVC III operating altitude up to 2000 metres
- Current sharing up to 1920W (3+1) for XDR-480E
  Current sharing up to 3840W (3+1) for XDR-960E
- **3 year warranty**

LISTED UL61010 | BS EN/EN62368-1 BS EN/EN61558-1 BS EN/EN61010-1 | IEC62368-1 IEC61558-1 IEC61010-1 | AS/NZS62368-1 AS/NZS61558-1

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

Model No.		XDR-75E	XDR-120E	XDR-150E	XDR-240E	XDR-480E	XDR-960E
AC input voltage range		85~264VAC; 120~370VDC					180~264VAC; 254~370VDC
AC inrush current (typ.)		35A at 230VAC*	40A at 230VAC*		30A at 230VAC, *cold start		
DC adjustment range		**12V:** 12~15V (except XDR-960E), **24V:** 24~29V, **36V:** 36~42V, **48V:** 48~55V					
Overload protection		105~130% rated output power constant current, unit will hiccup if Vo < 30% 105~150% rated output power constant current, unit will hiccup if Vo < 30% (XDR-150E@115VAC)					
Overvoltage protection	Range	**12V:** 15~18V (except XDR-960E), **24V:** 30~34V, **36V:** 43~50V, **48V:** 56~65V					
	Type	Shut down o/p voltage, re-power on to recover Hiccup mode, recovers automatically when fault removed (XDR-240E/480E)					
Over temp. protection		Shutdown o/p voltage, recovers automatically after temperature goes down					
Withstand voltage		I/P-O/P: 4kVAC, I/P-FG: 2kVAC, O/P-FG: 1. 5kVAC, O/P-DC OK: 0.5kVAC					
Working temperature		-40°C ~ +70°C (refer to output derating curve)					
Safety standards		UL61010-1/-2-201, EN62368-1, EN61558-1/-2-16, EN61010, IEC62368-1, IEC61558-1, IEC61010; RCM AS/NZS62368-1, AS/NZS61558-1/-2-16, BSMI CNS15598-1, CCC GB4943.1, EAC TPTC004 approved					
EMC standards		BS EN55032, EN61204-1 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8, EN61000-6-2(EN50082-2), EAC TP TC 020					
Connections		I/P: 3 pole, O/P: 3 pole screw terminals			I/P:3 pole, O/P: 4 pole		I/P:3 pole, O/P: 6 pole
Dimensions (WxHxD)		30x125.2x116mm			40x125.2x116mm	48x125.2x125mm	96x125.2x132mm
Weight		0.47kg	0.51kg		0.61kg	0.89kg	1.93kg

XDR-E compared

XDR-75E Series

Model No.	Output	Tol.	R&N	Eff.
XDR-75E-12	12V, 0~6.3A	±2.0%	100mV	89.0%
XDR-75E-24	24V, 0~3.2A	±1.0%	100mV	90.0%
XDR-75E-36	36V, 0~2.1A	±1.0%	120mV	91.0%
XDR-75E-48	48V, 0~1.6A	±1.0%	120mV	91.0%

XDR-120E Series

Model No.	Output	Tol.	R&N	Eff.
XDR-120E-12	12V, 0~10A	±2.0%	100mV	89.0%
XDR-120E-24	24V, 0~5.0A	±1.0%	120mV	91.0%
XDR-120E-36	36V, 0~3.3A	±1.0%	150mV	91.0%
XDR-120E-48	48V, 0~2.5A	±1.0%	150mV	91.0%

XDR-150E Series

Model No.	Output*	Tol.	R&N	Eff.
XDR-150E-12	12V, 0~11A	±2.0%	100mV	89.0%
XDR-150E-24	24V, 0~6.5A	±1.0%	120mV	90.0%
XDR-150E-36	36V, 0~4.3A	±1.0%	150mV	91.0%
XDR-150E-48	48V, 0~3.3A	±1.0%	200mV	91.0%

XDR-240E Series

Model No.	Output	Tol.	R&N	Eff.
XDR-240E-12	12V, 0~20A	±2.0%	100mV	94.0%
XDR-240E-24	24V, 0~10A	±1.0%	100mV	95.2%
XDR-240E-36	36V, 0~6.6A	±1.0%	120mV	95.5%
XDR-240E-48	48V, 0~5.0A	±1.0%	150mV	95.5%

XDR-480E Series

Model No.	Output	Tol.	R&N	Eff.
XDR-480E-12	12V, 0~30A	±2.0%	100mV	94.0%
XDR-480E-24	24V, 0~20A	±1.0%	120mV	95.5%
XDR-480E-36	36V, 0~13A	±1.0%	150mV	95.5%
XDR-480E-48	48V, 0~10A	±1.0%	150mV	96.0%

XDR-960E Series

Model No.	Output	Tol.	R&N	Eff.
XDR-960E-24	24V, 0~40A	±1.0%	120mV	94.5%
XDR-960E-36	36V, 0~27A	±1.0%	150mV	95.0%
XDR-960E-48	48V, 0~20A	±1.0%	150mV	95.5%

*200~230Vac operation, for 115Vac operation derate 20%, except XDR-150E-12 = 10%

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

XDR Series 75~960W Premium Slim Industrial DIN Rail Series

Power Supply Features

- High efficiency – up to 96%
- Ultra slim design from 30mm to 96mm
- Universal AC input / Full range
- Built-in active PFC (except XDR-75)
- Protection: Short circuit / Overload / Over voltage / Over temperature
- Fan-less design, cooling by free air convection
- Can be installed on DIN rail TS-35/7.5 or 15
- Certified for multiple international standards
- 200% peak power, 600% pulse current capability
- Built-in DC OK relay, remote ON/OFF control
- Built-in MODBus interface (except XDR-75/120)
- Current sharing up to 960W (3+1) for XDR-240
  Current sharing up to 1920W (3+1) for XDR-480
  Current sharing up to 3840W (3+1) for XDR-960
- **5 year warranty**

CNS15598-1 GB4943.1 TPTC004 (GL type)

LISTED Class 1, Div 2 | LISTED UL61010 | BS EN/EN62368-1 BS EN/EN61558-1 BS EN/EN61010-1 | IEC62368-1 IEC61558-1 IEC61010 | AS/NZS62368-1 AS/NZS61558-1

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

Model No.		XDR-75	XDR-120	XDR-240	XDR-480	XDR-960
AC input voltage range		85~305VAC; 80~431VDC				
AC inrush current (typ.)		10A at 230VAC, cold start				
DC adjustment range		**12V:** 12~15V (except XDR-960), **24V:** 24~29V, **36V:** 36~42V, **48V:** 48~55V				
Overload protection		105~200% rated output power for 5s then constant current at rated current Vo > 30%. Hiccup mode when Vo < 30%				
Overvoltage protection	Range	**12V:** 16~19V (except XDR-960), **24V:** 30~34V, **36V:** 43~50V, **48V:** 57~66V				
	Type	Shut down o/p voltage, re-power on to recover				
Over temp. protection		Shutdown o/p voltage, recovers automatically after temperature goes down				
Withstand voltage		I/P-O/P: 4kVAC, I/P-FG: 2kVAC, O/P-FG: 1. 5kVAC, O/P-DC OK: 0.5kVAC				
Working temperature		-40°C ~ +85°C (refer to output derating curve)				
Safety standards		UL61010-1/-2-201, EN62368-1, EN61558-1/-2-16, EN61010, IEC62368-1, IEC61558-1, IEC61010; RCM AS/NZS62368-1, AS/NZS61558-1/-2-16, BSMI CNS15598-1, CCC GB4943.1, EAC TPTC004 approved				
EMC standards		BS EN55032, EN61204-1 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8, EN61000-6-2(EN50082-2), SEMI F47 tested at 200VAC				
Connections		I/P: 3 pole, O/P: 3 pole		I/P: 3 pole, O/P: 4 pole		I/P:3 pole, O/P: 6 pole
Dimensions (WxHxD)		30x125.2x116mm		40x125.2x116mm	48x125.2x116mm	96x125.2x132mm
Weight		0.47kg	0.51kg	0.79kg	1.1kg	2.06kg

XDR compared

XDR-75 Series

Model No.	Output*	Tol.	R&N	Eff.
XDR-75-12□	12V, 0~6.3A	±1.0%	100mV	89.0%
XDR-75-24□	24V, 0~3.2A	±1.0%	100mV	90.0%
XDR-75-36□	36V, 0~2.1A	±1.0%	120mV	91.0%
XDR-75-48□	48V, 0~1.6A	±1.0%	120mV	91.0%

XDR-120 Series

Model No.	Output*	Tol.	R&N	Eff.
XDR-120-12□	12V, 0~10A	±1.0%	100mV	93.5%
XDR-120-24□	24V, 0~5.0A	±1.0%	100mV	94.0%
XDR-120-36□	36V, 0~3.3A	±1.0%	120mV	94.0%
XDR-120-48□	48V, 0~2.5A	±1.0%	120mV	94.0%

Terminal Type Options		
Blank	Screw Terminal	
LA	Lever Actuated	
PI	Push In	

XDR-240 Series

Model No.	Output*	Tol.	R&N	Eff.
XDR-240-12□	12V, 0~20A	±2.0%	100mV	94.0%
XDR-240-24□	24V, 0~10A	±1.0%	100mV	95.0%
XDR-240-36□	36V, 0~6.6A	±1.0%	120mV	95.5%
XDR-240-48□	48V, 0~5.0A	±1.0%	150mV	95.5%

XDR-480 Series

Model No.	Output*	Tol.	R&N	Eff.
XDR-480-12□	12V, 0~30A	±1.0%	100mV	94.0%
XDR-480-24□	24V, 0~20A	±1.0%	100mV	95.5%
XDR-480-36□	36V, 0~13A	±1.0%	120mV	95.5%
XDR-480-48□	48V, 0~10A	±1.0%	120mV	96.0%

XDR-960 Series

Model No.	Output*	Tol.	R&N	Eff.
XDR-960-24□	24V, 0~40A	±1.0%	120mV	94.5%
XDR-960-36□	36V, 0~27A	±1.0%	150mV	95.0%
XDR-960-48□	48V, 0~20A	±1.0%	150mV	95.5%

* 200% peak power, 600% transient peak current (see data sheet)

□ blank = screw terminal, LA = Lever Actuated, PI = Plug-In