

New Generation AC/DC DIN Rail Power Supply

1Ø Input XDR/XDR-E Series

3Ø Input XTR Series

MEAN WELL introduces its latest AC-DC DIN rail power supply series—XDR, XDR-E, and XTR—tailored for different grid systems and applications. For single-phase (1Ø) input, the XDR offers premium performance, while the XDR-E balances features and cost. The XTR serves as a high-value option for three-phase (3Ø) input.

Key upgrades include a slim design (30–96mm), 16–45% size reduction, up to 96% efficiency, and more output options: 12V, 24V, 36V, 48V. The series also features broader safety certifications (62368 / 61558 / 61010), wider temperature range, various terminal options, moisture-resistant PCBs (except XDR-E), extended warranty, and more competitive pricing—making them ideal for industrial automation, energy, networking, and semiconductor sectors.

75W-960W Complete Lineup

Ultra-Slim Width

-40°C~+85°C Wider Temp.

Full Certificates

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Comparison Between Generations



1Ø Input
High-End Flagship
XDR Series

XDR and XDR-E share the same compact design, XDR as the premium model compared to the more economical XDR-E, features with:

- Wider input voltage range 85~305Vac
- Lower AC inrush current: <10A
- Supports 200% peak power and 600% peak current
- Wider operating temperature range of -40~+85°C (full load at +60°C)
- MODBus communication (XDR-240~960)
- Parallel function available (XDR-240~960)
- Remote ON/OFF and Oring-FET (Selected models)
- PCB coating protection
- Extra certifications for explosion-proof, marine, semiconductor, and more
- Terminal options: Screw, Push-in, and Lever
- 5 years warranty (XDR-E: 3 years)

1Ø Input
Cost-Effective
XDR-E Series

XDR-E is designed as a cost-effective solution, fully capable of replacing the previous-generation SDR, NDR, and EDR series with:

- Significantly reduced size by 23%~45%
- More complete 12V/24V/36V/48V models, more complete lineup-featuring rare 240W/480W 12V models and expanded 36V options
- Input range of 85~264Vac
- Lower AC inrush current <30A
- Wider operating temperature range of -40~+70°C (full load at +50°C)
- Built-in parallel function (XDR-480E/960E)
- Entire XDR-E series is equipped with a DC OK signal (NDR/EDR series: None)
- 3 years warranty matches SDR/NDR and offers 1 year more than EDR

3Ø Input
XTR Series

The XTR series can fully replace the old TDR series with:

- Significantly reduced size by 16% to 28%
- Added 12V & 36V, more complete lineup-featuring rare 240W/480W 12V models and expanded 36V options
- 320~600Vac wider input range compare with TDR Series 340~550Vac
- Lower AC inrush current <10A
- Wider operating temperature range of -40~+85°C (full load at +60°C)
- Built-in parallel function (XTR-480/960).
- Entire XTR series is equipped with a DC OK signal. (TDR series-240W/960W only)
- 5 years warranty, which is 2 years longer than the TDR series

XDR / XDR-E series and SDR / NDR / EDR series Comparison Chart

XTR series and TDR series Comparison Chart

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Product Highlights

Wide Model Range · More Choices

The XDR-E series offers great value with power options from 75W to 960W. The high-end XDR series covers 75W to 960W, while the three-phase XTR series includes 240W, 480W, and 960W. All three series come in 12V, 24V, 36V, and 48V outputs to fit different system needs.



Ultra-Slim Width · Space-Saving

Compared to the previous SDR / NDR / EDR / TDR series, the XDR / XDR-E / XTR series is 16% to 45% more compact. With an ultra-slim width of just 30–96 mm (depending on the model), they offer greater flexibility and space efficiency for system installations.



Ultra-Wide Temperature Range · Versatile Applications

The XDR-E series can operate stably in ambient temperatures ranging from -40 to +70°C (derating required above +50°C), while the XDR and XTR series support an even wider temperature range from -40 to +85°C (derating required above +60°C). With their ultra-wide operating temperature design, they are suitable for diverse applications and harsh environmental conditions.



Comprehensive Certifications · Reliable & Durable

The new XDR / XDR-E / XTR series comes with wider safety certifications than the older SDR / NDR / EDR / TDR models. They meet global standards (CB, UL, TUV, CE, UKCA, etc.) and industry-specific ones like IEC 62368-1, 61558, and 61010, making them ideal for various applications worldwide. Backed by a 3 years warranty (XDR-E) and a rare 5 years warranty (XDR/XTR), they deliver reliable, long-lasting performance.



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Find The Right DIN Rail for Your Application

AC Input (Vin)		Series	Watt. (W)	Output Voltage (Vout)	Effi.	Peak		Built-in MODBus	Parallel Function	Dimensions (L x W x H)	Wty. (Years)
						Power	Current				
1Ø	85~ 264 Vac	**XDR-75E**	75	12V 24V 36V 48V	91%					30x 125.2x 116mm	3
		XDR-120E	120							30x 125.2x 116mm	
		XDR-150E	150							30x 125.2x 116mm	
		XDR-240E	240		95.5%					40x 125.2x 116mm	
		XDR-480E	480		96%				V	48x 125.2x 116mm	
	180~ 264Vac	**XDR-960E**	960	24V 36V 48V	95.5%				V	96x 125.2x 132mm	
1Ø	85~ 305Vac	**XDR-75**	75	12V 24V 36V 48V	91%	200%	600%			30x 125.2x 116mm	5
		XDR-120	120		91%	200%	600%			30x 125.2x 116mm	
		XDR-240	240		95%	200%	600%	V	V	40x 125.2x 116mm	
		XDR-480	480		95.5%	200%	600%	V	V	48x 125.2x 116mm	
		XDR-960	960	24V 36V 48V	95.5%	200%	600%	V	V	96x 125.2x 132mm	
3Ø	320~ 600 Vac	**XTR-240**	240	12V 24V 36V 48V	94%	150%				48x 125.2x 125mm	5
		XTR-480	480		95.5%	200%			V	63x 125.2x 125mm	
		XTR-960	960		96%	200%			V	96x 125.2x 132mm	

Applications



Industrial Automation



Production Lines



Energy & Power Management



Security & Access Control



Building Automation



Transportation Signaling