

DIN Rail Power Supplies 10W to 960W















Innovative, reliable, powerful







DIN rail power supplies from TDK-Lambda deliver the highest quality and performance required for tough industrial applications. Our new generation DRB and DRF product lines raise the bar for size and efficiency. Available in seven different power ratings, the units deliver between 15 and 480 W output power with a choice of standard output voltages from single phase AC input. The excellent efficiency up to 94% minimizes energy consumption; the units are convection cooled and can be operated at up +70°C. The narrow width saves valuable space on the DIN Rail.

Together with our proven high selling DPP, DPX and DSP Series, the DRB and DRF series deliver the performance you would expect from the market leader in Industrial power supplies.

www.emea.tdk-lambda.com



Our product families

Flat style power supplies (55.6mm) in plastic housing

DSP Series

Just 55.6 mm deep, the DSP DIN-Rail power supplies specifically aim at an easy integration into shallow cabinets.

The DSP series is designed for supplying low-voltage controls in building automation applications.

- 10, 30, 60 and 100W
- 1-phase input
- Protection class II (no protective earth conductor)
- EN/DIN 43880:1988-12

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Narrow design for industrial applications

DRB Series

The new economy range DRB impresses with an extremely slim form factor combined with a high power density. The units are ideal for all industrial applications with a high power demand that have little space available.

- 15, 30, 50 and 100W
- · 1-phase input
- · Eco design according to the ErP directive
- · Excellent cost-benefit ratio

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3-phase operation with input ranges of 340-575Vac

DPP Series

The DPP series covers the full power range between 15 and 960W; units with 120W or higher are also available with a 3-phase input. Applicable for industrial areas.

- 15, 25, 30, 50, 100, 120, 240, 480 and 960W
- 1-phase and 3-phase input
- · Optimized cost efficiency

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High efficiency and very narrow

DRF Series

The premium class series DRF boasts with its comprehensive functionality, high efficiency, extraordinary power density and excellent energy efficiency. The units are well suited for all demanding applications in industrial, automation, instrumentation, Process and Measurement applications.

- 120, 240 and 480W
- Up to 94% efficiency
- · 1-phase input
- · Eco design according to the ErP directive
- · Comprehensive control options

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DC/DC converters for low power on the DIN rail

DPX Series

The DPX series provides a broad range of dc-dc converters. With output voltages ranging from 3.3V to ± 15 V in four power classes between 15W and 60W and with input voltages between 9.5V and 75V, the DPX series offers an easy solution for any application requiring additional auxiliary voltages.

Coming in a standard metal housing, multiple units can easily be mounted next to each other in industrial applications.

- 15, 20, 40 and 60W
- · Wide-range input
- Operating temperatures up to 85°C
- · Sigle, dual and tripple Output

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DIN Rail mounted Line Filters for optimising EMC performance

RS..N/RT..N-series

Line-filters for DIN-rail mounting to optimize EMC-performance of complete cabinets.

Single- and two-stage filters with high attenuation over a wide frequency range – optimised for swithmode powersupplies – to reduce conducted and radiated emission in accordance to EMC-requirements based on EN55022.

- single-phase and 3-phase
- 3A to 30A nominal current
- · Screw-terminals

Technical specifications

DSP-Series – Flat style power supplies from 10 to 100 watts

Technical Data			16	65.6		10KLambula 105 55 6			
Power	W		1	10			ş	30	
Output voltage	V	5	12	15	24	5	12	15	24
Series		DSP	DSP	DSP	DSP	DSP	DSP	DSP	DSP
Voltage Adjust	V	_	-	_	-	5 to 5.5	12 to 14	13.5 to 16.5	24 to 28
Output current	max. A	1.5	0.83	0.67	0.42	3.0	2.1	2.0	1.3
Output Ripple & Noise	mV				Ę	50			
Input voltage AC	Vac				90 -	- 264			
Input Frequency	Hz				47	- 63			
Operating Temperature	°C				−25°C t	to +71°C			
Derating			2.5%/° from +55°C to +71°C						
Parallel			no						
Dimensions (W x H x D)	mm		18 x 91 x 55.6 53 x 91 x 55.6						
Warranty	Years					3			
Article number		DSP10-5	DSP10-12	DSP10-15	DSP10-24	DSP30-5	DSP30-12	DSP30-15	DSP30-24

DRB-Series – Narrow width single phase power supplies from 15 to 100 watts

Technical Data		19 19 19 19 19 19 19 19 19 19 19 19 19 1	Division of the second of the		
Power	W	15	3	30	
Output voltage	V	24	12	24	
Series		DRB	DRB		
Voltage Adjust	V	24 to 28	12 to 15	24 to 28	
Output current	max. A	0.63	2.5	1.25	
Output Ripple & Noise	mV	Typ 20 / max 240	Typ 40 / max 120	Typ 30 / max 240	
Input voltage AC	Vac		85 to 264		
Input Frequency	Hz		47 to 63		
No-load power	W		0.3		
Input current	max. A	0.27/0.17	0.55/0.33		
Efficiency	%	88 (115Vac) / 88 (230Vac)	87 (115Vac) / 87 (230Vac)	84 (115Vac) / 89 (230Vac)	
Operating Temperature	°C		-20°C to +70°C		
Derating				°C to –20°C and 3.33%/°C +55°C to +70°C	
Parallel			no		
Dimensions (W x H x D)	mm	18 x 75 x 90	21 x 75 x 90		
Warranty	Years		3		
Article number		DRB15-24	DRB30-12	DRB30-24	

TOKLambon 188			TD/Clambyh				
		60		100			
	12	15	24	12	15	24	24
DSP	DSP	DSP	DSP	DSP	DSP	DSP	DSP
5 to 5.5	12 to 14	13.5 to 16.5	24 to 28	12 to 14	13.5 to 16.5	20 to 24.2	24 to 28
7.0	4.5	4.0	2.5	6.0	5.0	3.8	4.2
				50			
			90 -	- 264			
			47	- 63			
			–25°C t	o +71°C			
			2.5%/° from +	1 +55°C to +71°C			
			1	าด			
71 x 91 x 55.6				90 x 91 x 56.8			
				3			
DSP60-5	DSP60-12	DSP60-15	DSP60-24	DSP100-12	DSP100-15	DSP100-24/C	DSP100-24

	192 - 193 -							
	5	0		100				
5	12	24	48	24				
DRB	DRB	DRB	DRB	DRB				
5.0 to 5.5	12 to 15	24 to 28	48 to 52.8					
6	3.4	2.1	1.05	4.2				
Typ 30 / max 120	Typ 20 / max 150	Typ 30 / max. 240	Typ 40 / max 480	Typ 30 / max 240				
		85 to 264						
		47 to 63						
0.5	0	.3	0.5	0.5				
	0.9/	0.55		1.2/0.6				
-	89 (115Vac) / 88 (230Vac)	88.5 (115Vac) / 87 (230Vac)	89 (115Vac) / 87 (230Vac)	87 (115Vac) / 87 (230Vac)				
		–20°C to +70°C						
	5%/°C from −10°C to −20°C and 3.33%/°C from +55°C to +70°C							
	no							
	45 x 75 x 100							
DRB50-5	DRB50-12	DRB50-24	DRB50-48	DRB100-24				

DPP-Series – Standard single phase power supplies from 15 to 100 watts

Technical Data		ST PECCOSCO ST PEC	DFP20-24 TDKLambda TOKLambda TOKLambda TOKLambda TOKLambda TOKLambda TOKLambda	TDKLambda ***Company train women ***Company train wo				
Power	w	15	25	3	30			
Output voltage	V	24	5	12	24			
Series		DPP	DPP	DPP	DPP			
Voltage Adjust	٧	22.5 to 28.5	5 to 6	9.9 to 12.1	22.5 to 28.5			
Output current	max. A	0.63	5	2.5	1.3			
Output Ripple & Noise	mV		<	:50				
Input voltage AC	Vac		85 to	o 264				
Wide-Range								
Input Frequency	Hz		47	- 63				
Input current	max. A	0.4	0.4 0.75 0.75					
Operating Temperature	°C		−10°C to +71°C					
Derating		5%/°C from +61°C to +71°C						
Parallel		yes						
Dimensions (W x H x D)	mm	23 x 75 x 97 45 x 75 x 91 45 x 75 x 91 mm						
Warranty	Years		;	3				
Article number		DPP15-24	DPP25-5	DPP30-12	DPP30-24			

DRF-Series – High efficiency single phase power supplies 120-480 watts

Technical Data		766 Candred 5	Topic system	70kcmada 6mmg		
Power	w	120	240	480		
Peak Power (4 Seconds)	W	180	360	720		
Output voltage	V	24	24	24		
Series		DRF	DRF	DRF		
Voltage Adjust	٧					
Output current	max. A	5	10	20		
Output Ripple & Noise	mVp-p		240			
Input voltage AC	V AC		85 to 264			
Input Frequency	Hz		47 to 63			
No-load power	W	0.5	0.5	0.75		
Input current	max. A					
Efficiency	%	91	g	94		
Operating Temperature	°C	−25°C to +70°C				
Derating		2.5%/°C from +60°C to +70°C				
Parallel		possible				
Dimensions (W x H x D)	mm	36.5 x 123.4 x 115.4	49 x 123.4 x 115.4	82 x 123.4 x 115.4		
Warranty	Years		5			
Article number		DRF120-24	DRF240-24	DRF480-24		



DPP-Series – Standard single phase power Supplies 120-480 watts

Technical Data		22000 DPP120-244 TDK Lambda			DPP240-24-1 TDK:Lambda		DPP480-24-1 TDK-Lambda HISTORY CHARGE STREET 14 YES-755. 175	
Power	w		120		2	40	4	80
Output voltage	V	12	24	48	24	48	24	48
Series		DPP	DPP	DPP	DPP	DPP	DPP	DPP
Voltage Adjust	٧	11.4 to 14.5	22.5 to 28.5	45 to 55	22.5 to 28.5	47 to 56	22.5 to 28.5	47 to 56
Output current	max. A	10	5	2.5	10	5	20	10
Output Ripple & Noise	mV		<50		<.	100	100	
Input voltage AC	Vac		90 to 132	/ 180 to 264 (a	auto select)		90 to 264	
Input Frequency	Hz				47 t	o 63		
Input current	max. A		2.8/1.4		5.4	/2.2	7/3.5	
Operating Temperature	°C				-40°C to	+71°C		
Derating			2.5%/°	from +31°C to	+71°C		2.5%/° from +	56°C to +71°C
Parallel					yes, up to	3 devices		
Dimensions (W x H x D)	mm	6	3.5 x 125 x 123	3.6	83 x 12	25 x 126	175 x 1	25 x 123
Warranty	Years				;	3		
Article number		DPP120-12	DPP120-24	DPP120-48	DPP240-24	DPP240-48	DPP480-24-1	DPP480-48-1

DPP-Series – Standard 3-phase power supplies from 120-960 watts

Technical Data		DPP120-24-3 TDKLambda	III.9	DPP240-24-3 TDK-Lambda -89		
Power	W	1	20	240		
Output voltage	V	12	24	24	48	
Series		DPP	DPP	DPP	DPP	
Voltage Adjust	٧	11.4 to 11.5	22.5 to 28.5	22.5 to 28.5	47 to 56	
Output current	max.mA	10	5	10	5	
Output Ripple & Noise	mV		1/	00		
Input voltage AC	Vac		340 t	to 575		
Input Frequency	Hz		47 t	to 63		
Input current	max. A	0.	.36	0.	.65	
Operating Temperature	°C		−40°C t	to +71°C		
Derating			2.5%/°C from -	+61°C to +71°C		
Parallel		no		yes, up to	2 devices	
Dimensions (W x H x D)	mm	74.3 x 124 x 111.9 89 x 124 x 111.9				
Warranty	Years			3		
Article number		DPP120-12-3	DPP120-24-3	DPP240-24-3	DPP240-48-3	

DPX-Series – DC/DC converter for DIN rail from 15 to 60 watts

Technical Data		10 70K	PAIS Lamber CE	57.6	9720 DP720 TOME AND		
Power	W		15		20		
Input voltage (nominal)	V	24	48	24	48		
Series		DPX	DPX	DPX	DPX		
Voltage Adjust	V DC	9.5 to 36	18 to 75	9.5 to 36	18 to 75		
Output current	max.mA		500 to 4500		667 to 5500		
Output Voltage	V		3.3, 5, 12, 15		3.3, 5, 12, 15		
Output Ripple & Noise	mVp-p		50 to 75		60 to 100		
Input current	max. mA	772 to 787	18 to 38	957 to 1043	473 to 515		
Operating Temperature		-	-40°C to +95°C		-40°C to +91°C		
Derating		7,5%/°C	from +85°C to +95°C	6,1%/°0	C from +78°C to +91°C		
Parallel		no					
Dimensions (W x H x D)	mm	5	7.6 x 24.5 x 125		57.6 x 24.5 x 125		
Warranty	Years		2				
Article number		DPX15-24Wxxxx	DPX15-48Wxxxx	DPX20-24Wxxxx	DPX20-48Wxxxx		

DPP480-24-3 TDK:Lambda Mesterna Marcona 150		To see a see	DPP960-24-3 DK-Lambda 275,8		
4	80	960			
24	48	24	48		
DPP	DPP	DPP	DPP		
22.5 to 28.5	47 to 56	22.5 to 28.5	47 to 56		
20	10	40	20		
1	00	80			
		340 to 575			
		47 to 63			
1	1.1	1.	72		
–30°C t	o +71°C	−40°C t	o +71°C		
2.5%/°C from	1 +61°C to +71°C	linearer Verlauf 3.5%/°C from +61°C to +71°C			
		yes, up to 2 devices			
150 x 124 x 111.9		275.8 x 126.2 x 111.9			
		3			
DPP480-24-3	DPP480-48-3	DPP960-24-3	DPP960-48-3		

