



DIN-Rail Power Supplies

Edition 1 | 2009

Innovative, reliable, powerful



Since our formation over 60 years ago TDK-Lambda has become the recognised leader in Industrial power supplies with a reputation for the highest standards of reliability, innovation and customer-specific flexibility. Our ever-expanding Research and Development department translates market preferences into a continuous stream of new TDK-Lambda products designed to the very highest technical standards.

With production facilities in EMEA, America and Asia, we are one of the world's largest manufacturers of power supplies.

Simple installation

Our reliable low-cost DIN-Rail power supplies feature an easy and fast mounting suitable for TS35/7.5 and TS35/15 DIN-Rails. This reduces installation effort significantly.

Performance guarantee

TDK-Lambda products are renowned for the highest standards of quality and reliability. Our DIN-Rail power supplies are supported a two-year warranty.

Short delivery times

With high stock levels maintained in our European Warehouse and at our Distributor network we can usually offer ex-stock availability.

The DSP-Series

Just 56 mm deep, the new low-profile DSP DIN-Rail mounting power supplies are specifically designed for easy installation into shallow cabinets.

Offered in versions with power ratings from 7.5 W to 100 W and with 5, 12, 15 and 24 V outputs, the units are suitable for powering security and building automation controls which are increasingly required in commercial and residential premises.



The DPP-Series

The power spectrum of the DPP-Series ranges from 15 to 960 Watts with 5 to 48 V outputs and are designed for use in a wide range of Industrial applications. The DPP-15 to DPP-100 feature a robust plastic case and the DPP-120 upwards are have a metal case and can be ordered as single- or three-phase input models. The highest power model DPP-960 is only available with a three-phase input.



The DPX-Series

The DPX Series offers a very broad range of DC/DC converters suitable for DIN-Rail mounting.

The DPX DIN-Rail power supplies are available with a choice of output voltages from 3.3 to ± 15 V. There are 5 power levels starting from 15 W up to 60 W with input voltages from 9.5 to 75 V offering a convenient solution for additional DIN-Rail mounted auxiliary voltages.

A narrow 25 mm rugged metal case takes up minimal DIN-Rail space.



Powerful, safe and reliable

Overcurrent and overvoltage protection

Overcurrent and overvoltage protection is incorporated and a LED indicator gives instant visual confirmation of output status.

Rugged fully isolated cases

The low power DPP series is designed for use in a wide range of industrial applications.

Easy integration

Just 56 mm deep, the low-profile DSP DIN-Rail mounting power supplies are specifically designed for easy installation in shallow cabinets commonly used in building automation and security applications.

Compact and reliable

TDK-Lambda DIN-Rail power supplies have input voltage ranges suitable for worldwide operation.

The units can supply their full rated output continuously across a wide temperature range with natural convection cooling.

Wide adjustable range

The output voltage of the DPP family is adjustable over a wide range by a trimpot, so the units can be used for battery charging.

International approvals

TDK-Lambda DIN-Rail power supplies carry a wide range of national and international approvals including IEC60950-1, UL508, CE mark and NEC Class 2 compliance which allow easy integration into equipment all over the world (model dependent).



LED indicator gives instant visual confirmation of output status



Rugged Power Supplies for tough locations



Low Profile for Building Automation



Suitable for worldwide operation



Adjustable output voltage via trimpot



Easy integration for projects locally and internationally



DSP Series with low profile for easy installation

DIN-Rail Power Supplies Overview

Technical Data DPP-Series 15 – 100 Watt

Specifications	Output Voltage Accuracy	± 1 %
	Regulation	1 %
	Ripple/Noise	< 50 mV
	Overcurrent Protection	> 120 %
	Overvoltage Protection	125 – 137,5 %
	Hold-up Time	> 20 msec.
	Efficiency	78 – 87 %
Operating Conditions	Operating Temperature	-10 – 71 °C
	Storage Temperature	-25 – 85 °C
	Cooling	Convection
	Case Material	Plastic
Warranty		2 years

Technical Data DPP-Series 120 – 960 Watt

Specifications	Output Voltage Accuracy	1 %
	Regulation	±0,5 %
	Ripple/Noise	< 100 mV
	Overcurrent Protection	120 – 140 %
	Overvoltage Protection	120 – 145 %
	Hold-up Time	15 – 30 msec.
	Efficiency	84 – 93 %
Operating Conditions	Operating Temperature	-25 – 71 °C
	Storage Temperature	-25 – 85 °C
	Cooling	Convection
	Case Material	Metal
Warranty		2 years

Technical Data DSP-Series 10 – 100 Watt

Specifications	Output Voltage Accuracy	± 1 %
	Regulation	1 %
	Ripple/Noise	50 mV
	Overcurrent Protection	110 – 160 %
	Overvoltage Protection	120 – 145 %
	Hold-up Time	10 – 60 msec.
	Efficiency	74 – 89 %
Operating Conditions	Operating Temperature	-25 – 71 °C
	Storage Temperature	-25 – 85 °C
	Cooling	Convection
	Case Material	Plastic
Warranty		2 years

Technical Data DPX-Series 15 – 60 Watt

Specifications	Output Voltage Accuracy	1 %
	Regulation	± 1 – ± 5 %
	Ripple/Noise	100 mV
	Overcurrent Protection	150 % Hiccup-Mode
	Overvoltage Protection	120 – 130 %
	Efficiency	79 – 90 %
	Operating Conditions	Operating Temperature
Storage Temperature		-25 – 85 °C
Cooling		Convection
Case Material		Metal
Warranty		2 years

The DPP-Series



75
97
23

Input
85 – 264 V AC
47 – 63 Hz
90 – 375 V DC
For 100 W Input 85 – 132/
176 – 264 V AC

Output Power 15 W

24 V 0,63 A DPP-15-24




125
63,5
123,6

Input single-phase
90 – 264 V AC
47 – 63 Hz
120 – 370 V DC
For 120 und 240 W Input
90 – 132/186 – 264 V AC
210 – 370 V DC

Output Power 120 W

12 V 10 A DPP-120-12-1
24 V 5 A DPP-120-24-1
48 V 2,5 A DPP-120-48-1



124
74,3
111,9

Input tri-phase
340 – 575 V AC
47 – 63 Hz
~480 – 820 V DC

Output Power 120 W

12 V 10 A DPP-120-12-3
24 V 5 A DPP-120-24-3
48 V 2,5 A DPP-120-48-3



Output Power 25/30 W

5 V 5 A DPP-25-5
12 V 2,5 A DPP-30-12

Output Power 50 W

15 V 3,4 A DPP-50-15
24 V 2,1 A DPP-60-24
48 V 1,0 A DPP-50-48

Output Power 100 W

24 V 4,2 A DPP-100-24



Output Power 240 W

24 V 10 A DPP-240-24-1
48 V 5 A DPP-240-48-1

Output Power 480 W

24 V 20 A DPP-480-24-1
48 V 10 A DPP-480-48-1



Output Power 240 W

24 V 10 A DPP-240-24-3
48 V 5 A DPP-240-48-3

Output Power 480 W

24 V 20 A DPP-480-24-3
48 V 10 A DPP-480-48-3

Output Power 960 W

24 V 40 A DPP-960-24-3
48 V 20 A DPP-960-48-3





The DSP-Series

AC/DC

<p>Input</p> <p>90 – 264 V AC 47 – 63 Hz 120 – 370 V DC</p>				
	Output 10 W	Output 30 W	Output 60 W	Output 100 W
	5 V 1,5 A DSP-10-5	5 V 3 A DSP-30-5	5 V 7 A DSP-60-5	12 V 6,0 A DSP-100-12
	12 V 0,83 A DSP-10-12	12 V 2,1 A DSP-30-12	12 V 4,5 A DSP-60-12	15 V 5,0 A DSP-100-15
	15 V 0,67 A DSP-10-15	15 V 2,0 A DSP-30-15	15 V 4,0 A DSP-60-15	
24 V 0,42 A DSP-10-24	24 V 1,3 A DSP-30-24	24 V 2,5 A DSP-60-24		

The DPX-Series

DC/DC Converter

<p>Input 2:1</p> <p>9,5 – 18 V DC 18 – 36 V DC 36 – 75 V DC</p> <p>Input 4:1</p> <p>9,5 – 36 V (10 – 40 V DC) 18 – 75 V DC</p>				
	Output 15/20 W	Output 30 W	Output 40 W	Output 60 W
	Single 3,3, 5, 12, 15 V	Single 3,3, 5, 12, 15 V	Single 3,3, 5, 12, 15 V	Single 3,3, 5, 12, 15 V
	Dual ±12, ±15 V	Dual ±12, ±15 V	Dual ±12, ±15 V	
			Triple 3,3, ±12 or ±15 V 5, ±12 or ±15 V	

More technical details www.emea.tdk-lambda.com/www/DINRail

Please contact your local sales office to find the best solution to your application.



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