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Data Sheet
August 13, 2026

LAMBDA / TDK

Lambda / TDK / EMI DPP120-12-1

Lambda / TDK DC Power Supplies. Current: 2.8 A @ 115 VAC, Voltage: 12 VDC nominal (11.4–14.5 VDC operating range), Current: 10 A.

MODEL Lambda / TDK DPP120-12-1	CALIBRATION Available on request
CONDITION Used	STATUS In stock
RFQ / SKU DPP120-12-1	LISTING https://aumictechlabs.com/products/dpp120-12-1-2/

NIST-traceable cal · SAM registered · 30-day returns

NAICS 423690 · 811210 · 541380

This unit

The TDK-Lambda DPP120-12-1 is a 120 W single-output AC-DC power supply engineered for industrial control, factory automation, and test instrumentation. This enclosed DIN rail-mount unit delivers regulated 12 VDC output at up to 10 A, supporting universal AC input from 90–264 VAC and direct DC input from 210–370 VDC. Built for reliability across demanding environments, it combines convection cooling, metal construction, and 84% typical efficiency with active power factor correction to EN61000-3-2. Technical Specifications Input Characteristics AC Input: 90–264 VAC (auto-selectable ranges: 90–132 VAC or 186–264 VAC) DC Input: 210–370 VDC Input Frequency: 47–63 Hz Input Current: 2.8 A @ 115 VAC; 1.4 A @ 230 VAC Power Factor Correction: EN61000-3-2 compliant Output Characteristics Output Voltage: 12 VDC nominal (11.4–14.5 VDC operating range) Maximum Output Current: 10 A Maximum Output Power: 120 W Output Ripple and Noise: >50 mV (20 MHz bandwidth) Isolation Voltage: 3 kV Performance Efficiency: 84% typical Operating Temperature Range: −35°C to +71°C (with derating) Cooling Method: Convection Key Features Single regulated 12 VDC output with 10 terminal/9-pin interface

Universal AC/DC input acceptance with automatic voltage range selection Compact enclosed design: 63.5 mm W × 125 mm H × 63.5–123.6 mm D DIN rail mounting on TS35/7.5 or TS35/15 profile; 920 g weight Certified to UL508, IEC/UL/CSA/EN62368-1, and 60950-1/UL60950-1/UL62368-1 RoHS Compliant (ROHS3) and REACH certified Typical Applications Motor control systems and industrial automation Process control and factory instrumentation Burn-in and test applications in chemical processing environments Commercial IT equipment (ITE) Compatibility & Integration DIN rail mounting on standard TS35 profile enables rapid panel integration. The 3 kV isolation voltage supports applications requiring galvanic separation. Input frequency tolerance of 47–63 Hz accommodates global mains standards.

Features & description

From manufacturer datasheet

Features

- 12 V, 10 A, 120 W; adjust 11.4-14.5 V

DPP12012 Characteristics / Specifications

PARAMETER	VALUE
Model	DPP120-12-1
Manufacturer	TDK-Lambda
Instrument Type	DIN Rail AC/DC Power Supply
Series	DPP120
Alias	DPP120-12-1; DPP-120-12-1; TDK-Lambda DPP120-12
Rated Output Voltage	12 Vdc
Output Voltage Range	11.4 to 14.5 Vdc
Maximum Output Current	10 A
Maximum Output Power	120 W
Output Voltage Accuracy	-0, +1% of nominal
Overvoltage Protection Trip	15 to 17.4 V (DPP120-12-1 selector)
Efficiency Typical	84%
AC Input	90-132 / 180-264 Vac auto select
Input Frequency	47-63 Hz
DC Input	210-370 Vdc
Inrush Current	24 A at 115 Vac / 48 A at 230 Vac (DPP120)
Input Current	2.2 A at 115 Vac / 0.83 A at 230 Vac (DPP120)
Power Factor Typical	0.7 at 230 Vac
Line Regulation	plus/minus 0.5%
Load Regulation	+1% single mode; +5% parallel mode
Ripple And Noise	less than 50 mV (20 MHz BW, DPP120)
Overcurrent Protection	120-145% typical
Overvoltage Protection	120-145%
Hold Up Time	greater than 30 ms at 230 Vac
Parallel Operation	up to 3 units

PARAMETER	VALUE
LED Indicators	green On; red DC output low
Operating Temperature	-40 C to +71 C (derate linearly 2.5% perCfrom 61 C to 71 C)
Storage Temperature	-40 C to +85 C
Operating Humidity	20-95% RH noncondensing
Cooling	convection
Withstand Voltage	input to output 3 kVac for 1 min
Isolation Resistance	greater than 100 Mohm at 500 Vdc, 25 C, 70% RH, output to ground
Safety	UL508 listed; IEC/UL/CSA/EN62368-1; 60950-1; CE
Conducted Radiated EMI	EN55022 ClassB Size: 125 × 63.5 × 123.6 mm (DPP120)
Weight Typical	920 g (DPP120)
Warranty Catalog	3 years
Status	production NRND; recommended alternate DRB120-12-1 (interchangeability not guaranteed) Notes Specs from TDK-Lambda DPP120-12-1 / DPP120 & 240 series datasheet (12 V, 10 A, 120 W, 11.4-14.5 V, 84%, UL508). Confirm DIN-rail orientation and parallel wiring if used.
Humidity	20-95% RH noncondensing

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	40 C to +85 C
Operating temperature	40 C to +71 C (derate linearly 2.5% perCfrom 61 C to 71 C)
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Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications

Specifications

PARAMETER	VALUE
Model	DPP120-12-1
Manufacturer	TDK-Lambda
Instrument Type	DIN Rail AC/DC Power Supply

Specifications

PARAMETER	VALUE
Series	DPP120
Alias	DPP120-12-1; DPP-120-12-1; TDK-Lambda DPP120-12
Rated Output Voltage	12 Vdc

Specifications

PARAMETER	VALUE
Output Voltage Range	11.4 to 14.5 Vdc
Maximum Output Current	10 A
Maximum Output Power	120 W

Specifications

PARAMETER	VALUE
Output Voltage Accuracy	-0, +1% of nominal
Overvoltage Protection Trip	15 to 17.4 V (DPP120-12-1 selector)
Efficiency Typical	84%

Specifications

PARAMETER	VALUE
AC Input	90-132 / 180-264 Vac auto select
Input Frequency	47-63 Hz
DC Input	210-370 Vdc

Specifications

PARAMETER	VALUE
Inrush Current	24 A at 115 Vac / 48 A at 230 Vac (DPP120)
Input Current	2.2 A at 115 Vac / 0.83 A at 230 Vac (DPP120)
Power Factor Typical	0.7 at 230 Vac

Specifications

PARAMETER	VALUE
Line Regulation	plus/minus 0.5%
Load Regulation	+1% single mode; +5% parallel mode
Ripple And Noise	less than 50 mV (20 MHz BW, DPP120)

Specifications

PARAMETER	VALUE
Overcurrent Protection	120-145% typical
Overvoltage Protection	120-145%
Hold Up Time	greater than 30 ms at 230 Vac

Specifications

PARAMETER	VALUE
Parallel Operation	up to 3 units
LED Indicators	green On; red DC output low
Operating Temperature	-40 C to +71 C (derate linearly 2.5% perCfrom 61 C to 71 C)

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Specifications

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Isolation Resistance	greater than 100 Mohm at 500 Vdc, 25 C, 70% RH, output to ground
Safety	UL508 listed; IEC/UL/CSA/EN62368-1; 60950-1; CE

Conducted Radiated EMI: EN55022 ClassB Size: 125 x 63.5 x 123.6 mm (DPP120)

Weight Typical: 920 g (DPP120)

Warranty Catalog: 3 years

Status: production NRND; recommended alternate DRB120-12-1 (interchangeability not guaranteed)

Notes

Specs from TDK-Lambda DPP120-12-1 / DPP120 & 240 series datasheet (12 V, 10 A, 120 W, 11.4-14.5 V, 84%, UL508). Confirm DIN-rail orientation and parallel wiring if used.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: **sales@aumictech.com** · +1 (484) 841-9341

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