



Chassis-based Redundant Power Supply

The DPS-200, DPS-300 and DPS-500 are redundant power supply designed for use with D-Link LAN switches. Each power supply connects to a switch to provide redundant backup power to the built-in power supply units inside the switch. These RPS can operate as stand-alone redundant power supply units, but they can also be installed in a DPS-800 or DPS-900 chassis. The DPS-900 is an 8-slot standard rack-mount size chassis designed to accommodate up to 8 RPS. Using a DPS-900, you can deploy up to 8 redundant power supply units in a standard equipment rack to support a stack of 8 stackable D-Link switches mounted in the same rack.

- DPS-200 redundant power supply: provides up to 60 watts output power.
- DPS-300 redundant power supply: provides up to 90 watts output power.
- DPS-500 redundant power supply: provides up to 140 watts output power.
- DPS-800 2-slot chassis: allows 2 RPS to be deployed in a standard equipment rack.
- DPS-900 8-slot chassis: allows up to 8 RPS to be deployed in a standard equipment rack.

Supported Devices

The DPS-200 redundant power supply supports the following D-Link devices:

- DES-3326SR L3 stackable switch
- DES-3350SR L3 stackable switch
- DGS-3212SR L2 stacking master
- DGS-3312SR L3 stacking master

The DPS-300 redundant power supply supports the following D-Link devices:

- DGS-3224TGR L2 Gigabit Switch

The DPS-500 redundant power supply supports the following D-Link devices:

- DGS-3224SR L2 stackable switch
- DGS-3324SR L3 stackable switch
- DGS-3324SRi L3 stackable switch

DPS-800 Chassis

This chassis is designed to hold 2 RPS for use with a stack of 2 stackable switches. The DPS-800 can be installed in a 19-inch standard equipment rack.

DPS-900 Chassis

The DPS-900 is especially designed to hold 8 RPS for use with a stack of 8 stackable switches installed in an equipment rack. Using this chassis, you can save space, while your cabling will look neat. The chassis comes with no power supply of its own. All redundant power supply units installed in this chassis will connect directly to their AC power source.

Power Supplies Stand-alone or Installed in Chassis

All power supply units come with their own solid metal case housing and LED status indicators. They can be used as stand-alone power supply units, or installed in the chassis. As they are independent units, they are hot-swappable when used with the chassis.

DPS-200

Technical Specifications

Power Input

AC Input Voltage Rating
100VAC to 240VAC

AC Input Voltage Range
90VAC to 264VAC

AC Input Frequency Range
47 Hz to 63 Hz

AC Input Current
- 1.6A (RMS) max. for 115VAC
- 0.8A (RMS) max. for 230VAC

Maximum In-rush Current
- 30A max. @ 115VAC (at 25 degrees C ambient cold start)
- 60A max. @ 230VAC (at 25 degrees C ambient cold start)

Leakage Current
3.5mA max.

Power Output

Output Voltage
+12VDC

Minimum Load Current
0.5A

Maximum Load Current
5.0A

Line Regulation
+/-2% (measured output load from +/-10% rated load)

Load Regulation
+/-5% (measured output load from 20% to 100% rated load)

Output Ripple & Noise
120mV (measured bandwidth oscilloscope and terminated each output with 100uF capacitor and 0.1uF ceramic in parallel)

General Characteristics

Total Output Power
60 watts

Efficiency
75% min. @ max. load and 115VAC input

Hold Up Time
16mS min. at max. load and 115VAC input, @ 60Hz output drop down to 95% output voltage

Over Current Protection
Power supply protected against overload and short circuit applied to any one terminal -- auto restart (*)

(*) Output can be shorted permanently with damage

Over Voltage Protection
13.5V to 17V

AC Power Good (pwr-good) Signal Required
+3.3V (**)

(**) (1) Minimum high voltage is 2.0V with a maximum load current of 5.0mA
(2) Maximum high voltage is 3.4V
(3) Minimum low voltage is 0.0V
(4) Power good signal must go low within 0.5ms before 12V output drops out of below 10.0V
(5) Power good signal must go high within 2.5 seconds of application of power to the system

LED Status
- On: RPS good
- Off: RPS failed

Redundant Power Supply

Physical & Environmental

Dimensions
127mm (L) x 76mm (W) x 37mm (H) (device only)

Weight
0.83 kg (device only)

Operating Altitude
3,000 m (10,000 feet) max.

Storage Altitude
12,000 m (40,000 feet) max.

Operating Temperature
0° to 50 °C

Storage Temperature
-20° to 80 °C

Operating Humidity
20% to 80% RH

Storage Humidity
10% to 90% RH

Safety Standards
- UL 60950 3rd Edition
- TUV EN 60950
- CE Mark (LVD)

Safety Approvals
- CSA

EMI
- FCC Class B
- EN55022 (CISPR22) Class B

HI-POT Test
- Input to secondary: 3000VAC for 1 minute, 10mA
- Input to P.E.: 1500VAC for 1 minute, 10mA

Insulation Resistance
Input to secondary: >20Mohm 500VDC

Reliability (MTBF)
50K Hrs Min. at 25 degrees C 240VAC (max load)

Shock & Vibration
10-55Hz, amplitude 2G over entire frequency range. Sweep minute for X, Y and Z axis each 20 cycles.



Ordering Information

DPS-200	60-watt Output Redundant Power Supply
DPS-800	2-slot Redundant Power Supply Chassis
DPS-900	8-slot Redundant Power Supply Chassis

DPS-300

Technical Specifications

Redundant Power Supply

Power Input

AC Input Voltage Rating

100VAC to 240VAC

AC Input Voltage Range

90VAC to 264VAC

AC Input Frequency Range

47 Hz to 63 Hz

AC Input Current

- 2A (RMS) max. for 115VAC

- 1A (RMS) max. for 230VAC

Maximum In-rush Current

- 30A max. @ 115VAC (at 25 degrees C ambient cold start)

- 50A max. @ 230VAC (at 25 degrees C ambient cold start)

Power Output

Output Voltage

+12VDC

Minimum Load Current

0A

Maximum Load Current

7.5A

General Characteristics

Total Output Power

90 watts

Efficiency

80% min. @ max.

Over Voltage Protection

13.5V to 17V

AC Power Good (pwr_good) Signal Required

+5V

LED Status

- On: RPS good

- Off: RPS failed

Physical & Environmental

Dimensions

196mm (L) x 195mm (W) x 50mm (H) (device only)

Weight

1.7 kg (device only)

Operating Temperature

0 to 40 C

Storage Temperature

-10 to 55 C

Operating Humidity

5% to 95% non-condensing

Storage Humidity

5% to 95% non-condensing

Safety Standards

- UL 60950 3rd Edition

- TUV EN 60950

- CE Mark (LVD)

Safety Approvals

- CSA International

- CE

- CCC

EMI

- FCC Class B

- BSMI

- C-Tick



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Ordering Information

DPS-300

90-watt Output Redundant Power Supply

DPS-800

2-slot Redundant Power Supply Chassis

DPS-900

8-slot Redundant Power Supply Chassis

DPS-500

Technical Specifications

Power Input

AC Input Voltage Rating

115VAC to 230VAC

AC Input Voltage Range

90VAC to 264VAC

AC Input Frequency Range

47 Hz to 63 Hz

AC Input Current

- 4A (RMS) max. for 115VAC
- 2A (RMS) max. for 230VAC

Maximum In-rush Current

30A max. @ 115VAC (at 25 degrees C ambient cold start)
50A max. @ 230VAC (at 25 degrees C ambient cold start)

Leakage Current

3.5mA max.

Power Output

Output Voltage

- +5VDC
- +12VDC

Minimum Load Current

- 0A (+5VDC output)
- 0A (+12VDC output)

Maximum Load Current

- 1.5A (+5VDC output)
- 13A (+12VDC output)

General Characteristics

Total Output Power

140 watts

Efficiency

80% min. @ max.

Over Voltage Protection

13.5V to 17V

AC Power Good (pwr-good) Signal Required

+5V
+12V

LED Status

- On: RPS good
- Off: RPS failed

Physical & Environmental

Dimensions

196mm (L) x 195mm (W) x 50mm (H) (device only)

Weight

1.5 kg (device only)

Operating Altitude

3,000 m (10,000 feet) max.

Storage Altitude

12,000 m (40,000 feet) max.

Operating Temperature

0° to 50 °C

Storage Temperature

-20° to 80 °C

Operating Humidity

20% to 80% RH

Storage Humidity

10% to 90% RH

Redundant Power Supply

Safety Standards

- UL 60950 3rd Edition
- CSA 22.2 NO.234
- EN 60 950

Safety Approvals

- UL
- CSA

EMI

FCC Class B



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Ordering Information

DPS-500
DPS-800
DPS-900

140-watt Output Redundant Power Supply
2-slot Redundant Power Supply Chassis
8-slot Redundant Power Supply Chassis

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