



## 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



### Ordering Information

|                |                                       |
|----------------|---------------------------------------|
| <b>DPS-300</b> | 90-watt Output Redundant Power Supply |
| <b>DPS-800</b> | 2-slot Redundant Power Supply Chassis |
| <b>DPS-900</b> | 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

# D-Link®

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