D-Link®

DPS-200A

DPS-500A

DPS-800

DPS-700

DPS-200A/500A/700/800 Series

Redundant Power Supplies

Features

- Provides backup power for the switch's built-in power supply
- Can be installed as standalone module, or in 19-inch rack mountable chassis
- Solid metal housing
- LED status indicators
- 90 to 264 Volts, 47 to 63Hz AC input range
- Over current protection
- DPS-200A: up to 60 watts output power
- DPS-500A: up to 140 watts output power
- DPS-700: up to 589 watts output power and supports PoE power load sharing capability
- DPS-800 2-slot chassis: accommodates 2 DPS-200A/500A in 19-inch equipment rack

Overview

The DPS-200A, DPS-500A and DPS-700 redundant power supplies (RPS) are designed to conform to the wattage requirements of D-Link's Fast Ethernet and Gigabit switches. They provide a low-cost, simple solution to the problem of a failure of the internal power-supply of an Ethernet switch, which can result in the shutdown of that switching device, the devices attached to its ports, or an entire network. Supporting full output power for the switch, these redundant power supplies can maximize the availability of the switching device.

Redundant Power Backup

Each D-Link® RPS is equipped with an integrated detection circuit that continuously monitors the switching device's internal power supply. In the event of a power interruption, the redundant power supply is immediately triggered so that the LAN switch and its connected devices can continue providing service. This results in a more reliable network infrastructure and protects the network from a single failure of a network device power supply.

Easy and Flexible Deployment

Deployment of a DPS-200A, DPS-500A or DPS-700 does not necessitate any change in configuration of the LAN switch. Each RPS is equipped with a universal internal power supply and can be connected to any AC main power source from 90VAC to 264VAC, 47Hz to 63Hz through a standard AC power cable.

The DPS-200A and DPS-500A power supplies are modular, and can be mounted on benchtop/desktop as independent power supply units, or installed in a DPS-800 chassis, which holds two power supplies and mounts in a standard 19-inch equipment rack.

The DPS-700 is a 1U high 19-inch standard-size rack mount power supply designed specifically for D-Link's PoE switches. Not only does it provide power backup in the event of a power supply failure in the PoE switch, but it also supports PoE power load sharing. It provides an additional 370W of PoE power budget to the switch to support more powered devices.

All D-Link redundant power supplies ship with the necessary cables. The one exception is for the DPS-3000-10TC Gigabit switch when used with the DPS-200A power supply. In this case, a DPS-CB150-2PS cable must be separately ordered.

DPS-800 Rack-Mount Chassis

Each DPS-800 chassis can accommodate up to two DPS-200A or DPS-500A power supply modules in an equipment rack. The DPS-800 occupies 1.25U of rack space and allows users to save space with efficient cabling. All redundant power supply units installed in the chassis connect directly to their power sources and are hot-swappable.

D-Link RPS Compatibility Chart

Redundant Power Supply		
DPS-200A	**DPS-500A**	**DPS-700**
DES-3528	DGS-3450	DGS-1500-28P
DES-3552	DGS-3120-48TC	DGS-3120-24PC
DGS-3000-10TC[1]	DGS-3420-28TC	DGS-3120-48PC
DGS-3120-24TC	DGS-3420-28SC	DGS-3420-28PC
DWS-3160-24TC	DGS-3420-52T	DGS-3420-52P
	DGS-3620-28TC	DGS-3620-28PC
	DGS-3620-28SC	DGS-3620-52P
	DGS-3620-52T	DWS-3160-24PC

Applicable D-Link Switch

Technical Specifications

	DPS-200A	DPS-500A	DPS-700	DPS-800
Dimensions	• 6.8 x 10.1 x 1.7 in. (172 x 257 x 43 mm) • Panel size: 7.7 x 2.04 in. (196 x 52 mm)	• 6.8 x 10.1 x 1.7 in. (172 x 257 x 43 mm) • Panel size: 7.7 x 2.04 in. (196 x 52 mm)	• 17.36 x 7.83 x 1.73 in. (441 x 199 x 44mm) • 19" rack-mount width, 1U height	• 17.36 x 7.09 x 2.17 in. (441 x 180 x 55 mm)
Weight	• 3.33 lbs (1.51 Kg)	• 3.33 lbs (1.51 Kg)	• 9.83 lbs (4.46 Kg)	• 1.17 lbs (.53 Kg)
Input Voltage Range	• 90 to 264 VAC	• 90 to 264 VAC	• 90 to 264 VAC	–
Input Frequency	• 47 to 63 Hz	• 47 to 63 Hz	• 47 to 63 Hz	–
Max Input Current	• 2 A @ 100 VAC • 1 A @ 240 VAC	• 2 A @ 100 VAC • 1 A @ 240 VAC	• 7.5 A @ 110 VAC • 3.7 A @ 240 VAC	–
Max Inrush Current	• 30 A @ 115 VAC • 60 A @ 230 VAC	• 30 A @ 115 VAC • 60 A @ 230 VAC	• 30 A @ 115 VAC • 30 A @ 230 VAC	–
Efficiency	• 75 %	• 75 %	• 80%	–
Operating Temperature	• 32 to 122 °F (0 to 50 °C)	• 32 to 122 °F (0 to 50 °C)	• 32 to 149 °F (0 to 65 °C)	–
Storage Temperature	• -49 to 185 °F (-45 to 85 °C)	• -49 to 185 °F (-45 to 85 °C)	• -49 to 185 °F (-45 to 85 °C)	–
Operating Humidity	• 10 to 90% RH	• 10 to 90% RH	• 5 to 95% RH	–
Storage Humidity	• 10 to 95% RH	• 10 to 95% RH	• 5 to 95% RH	–
MTBF	• 400,000 hours	• 400,000 hours	• 624,961 hours	–

Ordering Information

Part Number	Description	Warranty
DPS-200A	60W Redundant Power Supply with (39 in./1m) DC Power Cable	1-Year
DPS-500A	140W Redundant Power Supply with (39 in./1m) DC Power Cable	1-Year
DPS-700	589W Redundant Power Supply with (39 in./1m) DC Power Cable	1-Year
DPS-800	2-slot Chassis for DPS-200A/500A	1-Year

Optional Accessories

Part Number	Description	Warranty
DPS-CB150-2PS	59 in./150cm RPS cable for connecting DGS-3000-10TC with DPS-200A	1-Year

[1] When connecting DPS-200A with DGS-3000-10TC, the DPS-CB150-2PS cable (separately ordered) is required.

All references to speed are for comparison purposes only. Product specifications, size and shape are subject to change without notice, and actual product appearance may differ from that depicted. See inside package for warranty details.

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For more information

U.S.A. | 17595 Mt. Herrmann Street | Fountain Valley, CA 92708 | 800.326.1688 | dlink.com

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