

Redundant Power Supply

For Ethernet Switch With PoE

- Up to 500 Watts Output Power
- 90VAC to 264VAC, 47Hz to 63Hz Universal Input Power
- Integrated Detection Circuit for Continuous Monitoring of Switch's Internal Power Supply
- Low Profile Standard Rack Mount Width

FEATURES

- **Total Output Power: 500 Watts**
- **90VAC to 264VAC, 47Hz to 63Hz Universal Input Power**
- **Integrated Detection Circuit**
- **Externally Connects to LAN Switch**
- **Solid Metal Case**
- **1 U Low Profile 19-Inch Standard Rack Mount Width**

The D-Link DPS-600 redundant power supply is designed to conform to the wattage requirements of the D-Link DES-3828P Ethernet switches with Power over Ethernet (PoE). This switch is capable of providing PoE for all of its 28 Ethernet switches, and is equipped with an internal power supply with a high power output conforming to the wattage requirements.

The DPS-600 redundant power supply provides a low-cost, simple solution to the problem of an inadvertent failure of the internal power-supply of the Ethernet switch, which can result in the shutdown of that switching device, the PoE devices attached to its ports, or an entire network. Supporting 500 watts output power, the DPS-600 redundant power supply can maximize power availability of the switching device.

With a DPS-600 redundant power supply connected to the LAN switch, an integrated detection circuit will continuously monitor 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.

A deployment of the DPS-600 with a LAN switch does not necessitate any change in configuration of the LAN switch. This redundant power supply 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 three-pronged AC power cable. It is housed in a low-profile 19-inch standard-size rack mount metal case, and consequently can be mounted in the same rack as the switching device that it supports. Connecting the DPS-600 to the switching device is through a 14-pin DC power cable.



Technical Specifications

Input Voltage

90VAC to 264VAC

Input Frequency

47Hz to 63Hz

Input Current

- 10A at 115VAC, 60Hz (max.)
- 5A at 230VAC, 50Hz (max.)

Inrush Current

- 30A at 115VAC, 60Hz input, 25 C (max.)
- 60A at 230VAC, 50Hz input, 25 C (max.)

Output Power

500 watts (max.)

Line Regulation

Less than + 2% (measuring at rated load and changing + -10% of nominal input voltage)

Load Regulation

(Includes cross regulation between output voltages)

- 105 for +12V
- 3% for -50V

Hold Up Time

16mS (typical) at 115VAC input and rated load from end of last charging pulse to when main output drops to 95% output voltage

Efficiency

80% (typical) at nominal line and maximum load

Over Voltage Protection

- Trip point: below 16V for +12V output
- Auto-recovery mode against short circuit or over load conditions
- -50V output below -57V will protect itself against short circuit or over load conditions

Diagnostic LED

RPS good/failed

Physical & Environmental

Operating Temperature

0° to 50°C

Storage Temperature

-40° to 70 °C

Humidity

10% to 90% non-condensing

Dimensions

441 (W) x 139 (D) x 44.5 (H) mm
19-inch rack-mount width, 1U height

Weight

3.5 kg

EMI Approvals

- FCC Class B
- CE

Safety Approvals

- UL
- CUL

MTBF

100,000 hours @ nominal line voltage, maximum load, ambient 25 C temperature



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