

**DATA SHEET**

## **CISCO SYSTEMS REDUNDANT POWER SYSTEM 675**

The Cisco Redundant Power System 675 (RPS 675) is designed to increase availability in a converged data, voice, and video network. The system delivers superior internal power supply redundancy and resiliency at an affordable price.

The Cisco RPS 675 supports internal power supply redundancy for one of six Cisco networking devices and provides customers with an immediate failover capability. The Cisco RPS 675 incorporates a quick failover feature, ensuring customers that the connected device will not reboot in the event of an internal power supply failure. For example, if an internal power supply fails on one of the six connected devices, the Cisco RPS 675 automatically senses the failure and delivers uninterrupted power to that device.

When a failure is detected, the Cisco RPS 675 sends status information showing that the other connected devices will not be supported until the failed device is restored or replaced. This status information can be monitored through CiscoWorks 2000 and the Cisco Cluster Management Suite (CMS) Software that provides Web-based network management. In addition, the Catalyst 3750, 3560, 3550, 2970, and 2950 Series switches send a trap in the event of an internal power supply failure and the Cisco RPS 675 backing up the failed switch. To achieve one-to-one redundancy, each device must be connected to a separate Cisco RPS 675.

The Cisco RPS 675 can be combined with the Cisco Catalyst® 3750 and 3560 inline power switches and uninterruptible power supply (UPS) systems to establish all of the elements of the Cisco Centralized Power Provisioning System. This combination provides a resilient, highly available converged network, offering 1) internal redundant power to the switch; 2) power to the IP phone via the switch's inline power feature (rather than wall power); and 3) back-up in the event of a power outage.

**Figure 1.** The Cisco RPS 675 Supports Redundant Power for One of Six Cisco Networking Devices in a Convenient Single Rack-Unit (1RU) Form Factor

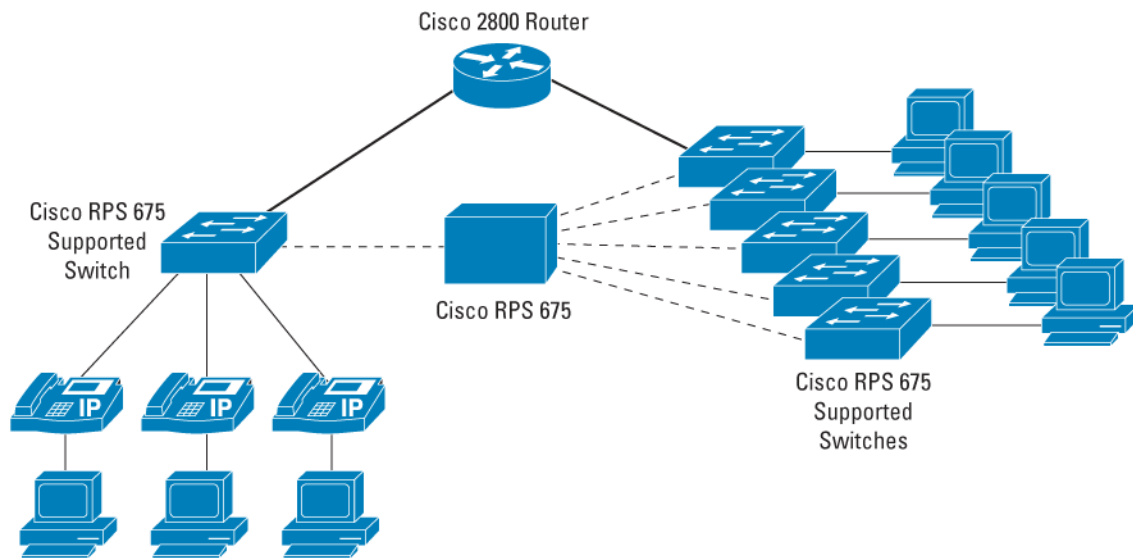


The Cisco RPS 675 will support future Cisco switches. Please refer to the 600-Watt Redundant AC Power System data sheet and the Cisco Systems Redundant Power Supply 300 data sheet for non-RPS 675 supported devices.

### **PRODUCT APPLICATIONS**

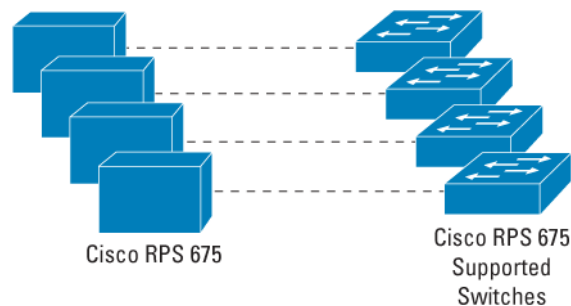
The Cisco RPS 675 can be deployed in a variety of situations to ensure network resiliency for mission-critical customer applications. Figure 2 illustrates the need for a more resilient network that provides maximum availability: a converged voice and data network includes switches connected to IP phones and PCs. In the rare event of a switch internal power supply failure, the Cisco RPS 675 ensures seamless voice/data network operation without interruption. In this scenario, multiple switches with inline power are supported by the Cisco RPS 675. The switches are connected to PCs and are used to power IP phones.

**Figure 2.** 10/100 IP Phone and Desktop Computer Connections



The Cisco RPS 675 also provides maximum resiliency when implemented with one-to-one redundancy. With a one-to-one configuration, backup for an internal power supply failure of the associated switch is guaranteed. This application, displayed in figure 3, a single Cisco RPS 675 is used to support a single desktop switch.

**Figure 3.** One-to-One Redundancy



## KEY BENEFITS AND FEATURES

### High Availability/Increased Network Uptime

- Less than 60  $\mu$ s failover capability prevents switch reboot after an internal switch power failure
- Supports traditional Ethernet switches (12V output) and new inline powered Ethernet switches (-48V output) for voice-over-IP (VoIP) telephones
- The Cisco RPS 675, in combination with an uninterruptible power system (UPS), delivers maximum network uptime by providing backup for the primary internal power supply as well as battery backup to maintain availability during power outages

### Ease-of-Use and Ease-of-Deployment

- Single rack-unit (1RU) high form factor provides the most efficient wiring closet space utilization available
- Users can identify and monitor the following activity on the Cisco RPS 675, using the CiscoWorks2000 or Cisco CMS Software network management applications:
  - Switch connectivity
  - Power delivery status

- Hot insertion of external devices
- LEDs on front panel indicate:
  - System status (Active, Standby, Off)
  - Internal DC power status
  - DC output power status for each channel
  - Thermal status
  - Fan status

### **Cost-Effective Solution**

- Innovative power architecture delivers a cost-effective unit price and allows the Cisco RPS 675 to support up to six switches, reducing the redundant power cost per switch
- One DC power cable included (CAB-RPS-1614=)

### **TECHNICAL SPECIFICATIONS**

#### **Supported Products**

- Catalyst 3750 Series Switches
- Catalyst 3560 Series Switches
- Catalyst 3550 Series Switches
- Catalyst 2980G-A Switch
- Catalyst 2970 Series Switches
- Catalyst 2950 Series Switches
- Catalyst 2900 LRE XL Switches

#### **Connectors and Cabling**

RPS to external device connection: 1.2-meter cable with a 16-pin connector on the RPS end, and 14-pin connector on the switch end. The Cisco RPS 675 comes with one cable; others must be ordered separately. See ordering information below.

#### **Indicators**

- Status LEDs—standby/active, output power, temperature, fan
- DC Output LEDs—DC output status for each of the six channels

#### **Dimensions and Weight**

- 1.75 x 17.5 x 14.88 in. (4.5 x 44.5 x 37.8 cm)
- Single rack-unit (1RU) high
- 13 lb (5.9 kg)

#### **Environmental Conditions and Power Requirements**

- Operating temperature: 32 to 113° F (0 to 45°C)
- Storage temperature: -4 to 149° F (-20 to 65° C)
- Operating relative humidity: 10 to 85 percent noncondensing
- Operating altitude: up to 10,000 ft (3000 m)
- Storage altitude: up to 15,000 ft (4570 m)
- Power consumption: 675W maximum for both outputs; 375W maximum for -48VDC and 300W maximum for 12VDC
- AC input voltage/frequency: 100 to 240 VAC (autoranging); 10-6A maximum input/50 to 60 Hz; 875W
- MTBF in excess of 301,000 hours

## **Electromagnetic Emissions Certifications**

- FCC Part 15 Class A
- EN 55022: 1998 (CISPR22) Class A
- EN 55024: 1998 (CISPR24)
- VCCI Class A
- AS/NZS 3548 Class A
- CE
- CNS 13438 Class A
- MIC
- BSMI

## **Safety Certifications**

- UL 60950 3RD edition
- CAN/CSA C22.2 No. 60950-00
- EN 60950
- IEC 60950
- AS/NZS 3260, TS001
- CE
- CLEI
- CCC approval pending
- NOM approval pending

## **Warranty**

Limited lifetime warranty

## **ORDERING INFORMATION**

- Model Number: PWR675-AC-RPS-N1=
- Cisco Redundant Power System 675 (RPS 675) with 1 connector cable
- The Cisco RPS 675 is sold with one cable. Other cables must be ordered separately.
- Cable: CAB-RPS-1614=
- 1.2 meter cable for Cisco RPS 675 to external device connection
- For More Information on Cisco Products, Contact:
- U.S. and Canada: 800 553-NETS (6387)
- Europe: 32 2 778 4242
- Australia: 612 9935 4107
- Other: 408 526-7209
- World Wide Web URL: <http://www.cisco.com>

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