

### Overview

## Models

HP 640 Redundant/External Power Supply Shelf

J9805A

## Key features

- Provides redundant or external power for HP 2920 Switch Series products
- Uses same modular power supplies as the HP 2920 Switches
- Unit has three power supply slots for maximum configurability options
- In RPS mode can provide protection for 8 switches, with up to 3 internal supply failures
- In EPS mode can provide up to an additional 2,100 watts of shared PoE+ power for up to 3 switches

## Product overview

The HP 640 Redundant/External Power Supply Shelf is used with the HP 2920 Switch Series to provide redundant power to back up internal power supplies in the switches, as well as provide external power for applications where additional power is required, as in PoE+ applications. Unit ships ready to be populated with at least one optional power supply and power cable, purchased separately.

## Features and benefits

### Scalability

- **Three modular power supply slots**
  - **Supports redundant power for up to eight HP 2920 Switches**  
protects against internal switch power supply failures
  - **Supports external power allowing up to three HP 2920 48 Port PoE+ Switches to support 1440W of PoE+ power**  
allows all 48 ports of a PoE+ switch to offer 30W of PoE+ power at the same time

### Resiliency and high availability

- **External redundant power supply**  
provides high reliability

### Configuration

- **Easy configuration**  
provides full management features, available through connected HP 2920 Switches

### Product architecture

- **Three power supply module slots**  
allows failure of a power supply in one bay to not affect the other two power supplies

### Warranty and support

- **Lifetime warranty**  
advance hardware replacement for as long as you own the product with next-business-day delivery (available in most countries)†

†HP warranty includes repair or replacement of hardware for as long as you own the product, with next business day advance

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replacement (available in most countries). The disk drive included with HP AllianceOne Advanced Services and Services zL Modules, HP Threat Management Services zL Module, HP AllianceOne Extended zL Module with Riverbed Steelhead, HP MSM765 zL Mobility Controller and HP Survivable Branch Communication zL Module powered by Microsoft® Lync has a five-year hardware warranty. For details, refer to the Software license and hardware warranty statements at [www.hp.com/networking/warranty](http://www.hp.com/networking/warranty).

### Technical Specifications

#### HP 640 Redundant/External Power Supply Shelf (J9805A)

<b>Ports</b>	8 redundant power supply ports Restrictions: Has 3 Zones, Zone 1 has 4 RPS/EPS power ports, Zone 2 and Zone 3 have 2 each RPS/EPS power ports	
<b>Physical characteristics</b>	<b>Dimensions</b>	17.4(w) x 12.7(d) x 1.73(h) in (44.2 x 32.26 x 4.4 cm) (1U height)
<b>Environment</b>	<b>Operating temperature</b>	32°F to 131°F (0°C to 55°C)
	<b>Operating relative humidity</b>	15% to 95%, noncondensing
	<b>Nonoperating/Storage temperature</b>	-40°F to 158°F (-40°C to 70°C)
	<b>Nonoperating/Storage relative humidity</b>	15% to 95%, noncondensing
	<b>Altitude</b>	up to 9,842 ft (3 km)
	<b>Acoustic</b>	Power: 69.1 dB, Pressure: 53.1 dB Acoustic ratings are absolute max sound levels with 3 modular power supplies and max output power
<b>Electrical characteristics</b>	<b>Description</b>	No power connected directly to the RPS 640. All power inlets come from optional power supplies.
	<b>DC voltage</b>	Depending on which power supplies are installed, can supply 12VDC or 54VDC
	<b>Maximum power rating</b>	3150 W
	<b>PoE power</b>	2100 W
	<b>RPS</b>	12VDC or 54VDC V
	<b>Frequency</b>	50/60 Hz
	<b>Notes</b>	Maximum power rating and maximum heat dissipation are the worst-case theoretical maximum numbers provided for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and all modules populated. Unit has 3 empty power supply slots. 1 to 3 optional power supplies and RPS cables for each connected switch required but not included. J9739A can only be used with non-PoE Switches. Must use J9737A to support 1440W PoE+. Bay #1 has 4 Switch connectors and power is split evenly among each enabled connector. Bays 2 and 3 have 2 Switch connectors, and split power evenly among each enabled connector. Switch power port connectors are all enabled by default, and may be disabled through CLI commands on a connected HP 2920 Switch.
<b>Safety</b>	GOST R MEK60950; EN62479:2010; UL 60950-1 2nd Edition; CSA C22.2 No. 60950-1-07 2nd Edition; EN 60950-1:2006+A11:2009+A1:2010+A12:2011; IEC 60950-1:2005, Amd 1: 2009	
<b>Emissions</b>	FCC Rules Part 15, Subpart B Class A; VCCI Class A; BSMI CNS 13438; AS/NZS CISPR 22 Class A; KCC Class A; EN 55022:2010; EN 61000-3-3:2008; EN 6100-3-2:2006+A1:2009 + A2:2009; GOST R 51318.22	
<b>Immunity</b>	<b>Generic</b>	EN55024:2010
	<b>ESD</b>	IEC 61000-4-2:2008
	<b>Radiated</b>	IEC 61000-4-3:2010
	<b>EFT/Burst</b>	IEC 61000-4-4:2012

### Technical Specifications

<b>Surge</b>	IEC 61000-4-5:2005
<b>Conducted</b>	IEC 61000-4-6:2008
<b>Power frequency magnetic field</b>	IEC 61000-4-8:2009
<b>Voltage dips and interruptions</b>	IEC 61000-4-11:2004

**Notes** No power cords, or power supplies are included with this product. Order modular power supplies to meet your needs.

**Services** Refer to the HP website at [www.hp.com/networking/services](http://www.hp.com/networking/services) for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.

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### Accessories

#### HP 640 Redundant/External Power Supply Shelf accessories

Cables	
<b>NEW</b> HP 640 External/Redundant Power Supply 1m Cable	J9806A
Power Supply	
<b>NEW</b> HP X332 1050W 110-240VAC to 54VDC Power Supply	J9737A
<b>NEW</b> HP X332 575W 100-240VAC to 54VDC Modular Power Supply	J9738A
<b>NEW</b> HP X331 165W 100-240VAC to 12VDC Modular Power Supply	J9739A

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To learn more, visit [www.hp.com/networking](http://www.hp.com/networking)

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