



Installation and Reference Guide

HP J2962A



HP AdvanceStack Redundant Power Supply

Perforate



HP Customer Support Services How to get the latest software/firmware

You can download any of the following:

HP AdvanceStack SNMP firmware:	asfw.exe
HP Interconnect Manager:	icmupdt.exe
HP Stack Manager	stkmgr.exe

from the World Wide Web, HP BBS, HP FTP Library Service, and CompuServe. After you download the file, exact the file file by typing *filename /x*. For example *asfw.exe /x*

World Wide Web

http://www.hp.com/go/network_city

HP BBS

With your telecommunication program (e.g., Windows Terminal) dial (208) 344-1691 with your modem. At the Filename prompt, type the name of the file. For example *asfw.exe /x*

HP FTP Library Service

- 1) FTP to Internet IP Address - ftp ftp-boi.external.hp.com
- 2) Log in as anonymous and press [Return] at the password prompt.
- 3) Type bin to set the file type.
- 4) Type cd pub/networking/software
- 5) Type get *filename* (e.g., icmupdt.exe) to transfer the file to your computer.
- 6) Quit the FTP session.

CompuServe

- 1) Login to CompuServe
- 2) Type go hpsys
- 3) Type lib 7
- 4) Type download *filename*. (e.g., download icmupdt.exe)
- 5) Quit CompuServe.



Obtain the latest software (asfw.exe, icmupdt.exe, stkmgr.exe) from:

World Wide Web:	http://www.hp.com/go/network_city
HP FTP Library Service	ftp-boi.external.hp.com
CompuServe	go hpsys lib 7 download <i>filename.exe</i>
HP BBS	(208) 344-1691



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HP AdvanceStack
Redundant Power Supply

Installation and Reference Guide

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Applicable Product

HP J2962A

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Warranty

A copy of the specific warranty terms applicable to your Hewlett-Packard product and replacement parts can be obtained from your HP Sales and Service Office or authorized dealer.

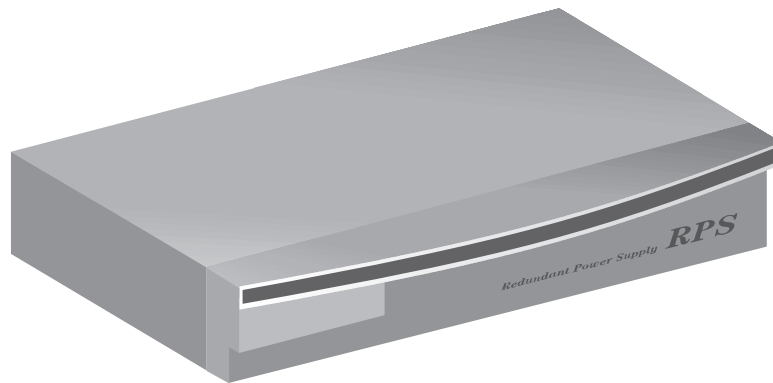
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HP Redundant Power Supply

At A Glance

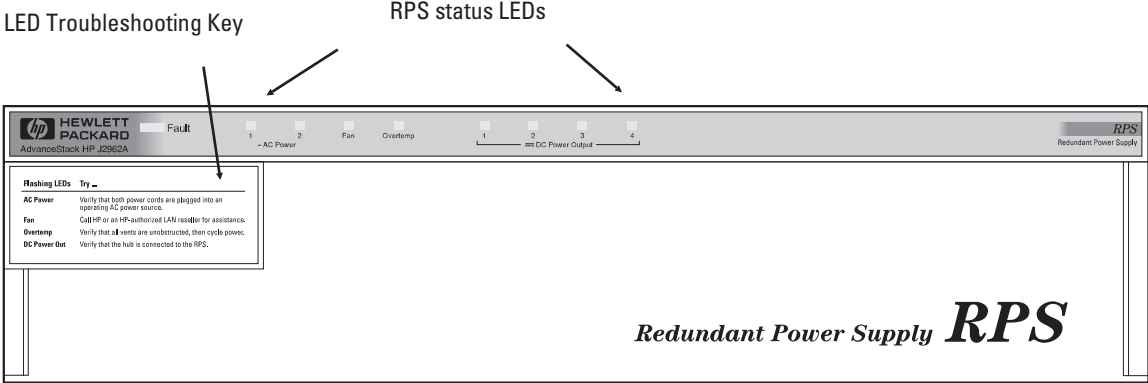
The HP J2962A Redundant Power Supply (hereafter RPS) provides redundant DC power to HP products that contain a redundant power supply connector.



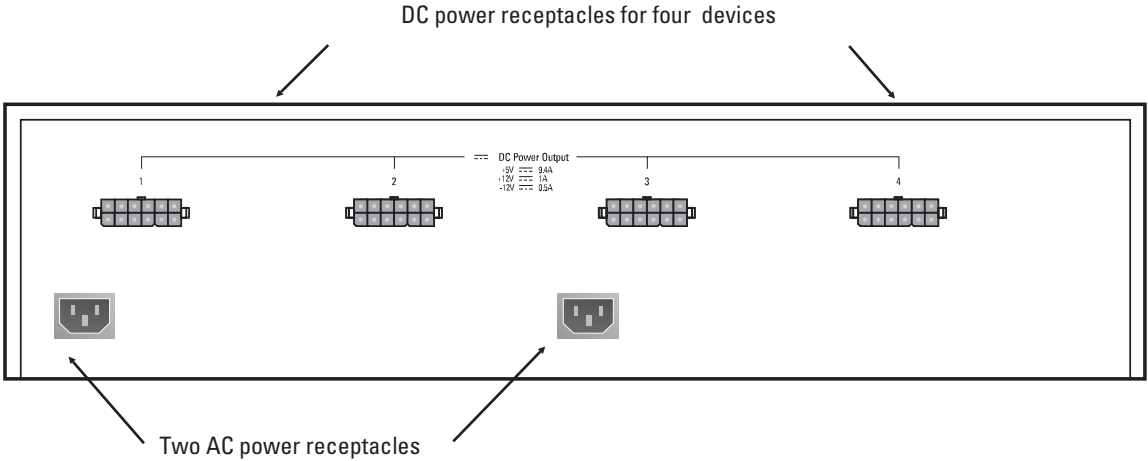
Features

- | | |
|-----------------------------|--|
| Network Connections | <ul style="list-style-type: none">■ Provides fully redundant power to four devices. |
| Modular, Easy-to-Use Design | <ul style="list-style-type: none">■ Nine LEDs to provide power, connectivity, and diagnostic information about the RPS. Also, each supported device has an RPS LED to report the status of the Redundant Power Supply.■ Handy troubleshooting key located on the front of the RPS to quickly diagnose the meaning of the LEDs.■ RPS status information available from HP Stack Manager (Windows 3.1 software shipped with the devices that support the RPS) and HP Interconnect Manager. |
| Management | <ul style="list-style-type: none">■ SNMP indication on the RPS connection and the RPS fault condition through the connected devices. |
-

Front of the RPS



Back of the RPS



Installation Summary

The basic hardware installation procedure for the RPS is as follows:

1. Mount the RPS in a rack or place it on a table.
2. Connect the RPS to the devices that need redundant power.
3. Verify the RPS's operation.

Included Parts

Each RPS has the following components shipped with it:

- *HP Redundant Power Supply Installation and Reference Guide*—this manual (J2962-90001)
- Two AC power cords, one of the following:

Australia/New Zealand	(8120-6175)
Denmark	(8120-6178)
Europe	(8120-6174)
Japan	(8120-5342)
Switzerland	(8120-6179)
United Kingdom	(8120-6173)
U.S./Canada/Mexico/Taiwan	(8120-6776)
- Four 34-inch (86.4 cm) DC power cords (8120-6777) to connect the supported HP devices
- Accessory kit (5063-8522):
 - two mounting brackets
 - four 10-mm M4 screws
 - four 5/8-inch number 12-24 screws

1. Mount the RPS

For safe and reliable operation, the RPS can be placed on a table or mounted in a rack or cabinet only.

Hewlett-Packard sells 19-inch free-standing equipment racks. To order a rack for your RPS and hubs, call HP at 1-800-538-8787 and request part number 46298D.

Mounting Precautions

- Before mounting an RPS, plan its location and orientation relative to other devices and equipment. Also consider the cabling that will be attached to the RPS and ports that will be used.
- *Ensure that the RPS does not overload the power circuits, wiring, and over-current protection.* To determine the possibility of overloading the supply circuits, add together the ampere ratings from the nameplates of the RPS and other equipment installed on the same circuits and compare the total with the rating limits for the supply circuits.
- Make sure that the power source circuits are properly grounded, then use the supplied power cord to connect the RPS to the circuit. *See the Safety Statements at the end of this manual.*
- Do not install the RPS in an environment where the operating ambient temperature might exceed 55°C (131°F).
- Make sure the air flow around the sides of the RPS is not restricted.

Table Mounting

To place the RPS on a table or other horizontal surface, no special tools are necessary. Be certain to pick a sturdy table.

Installation Summary

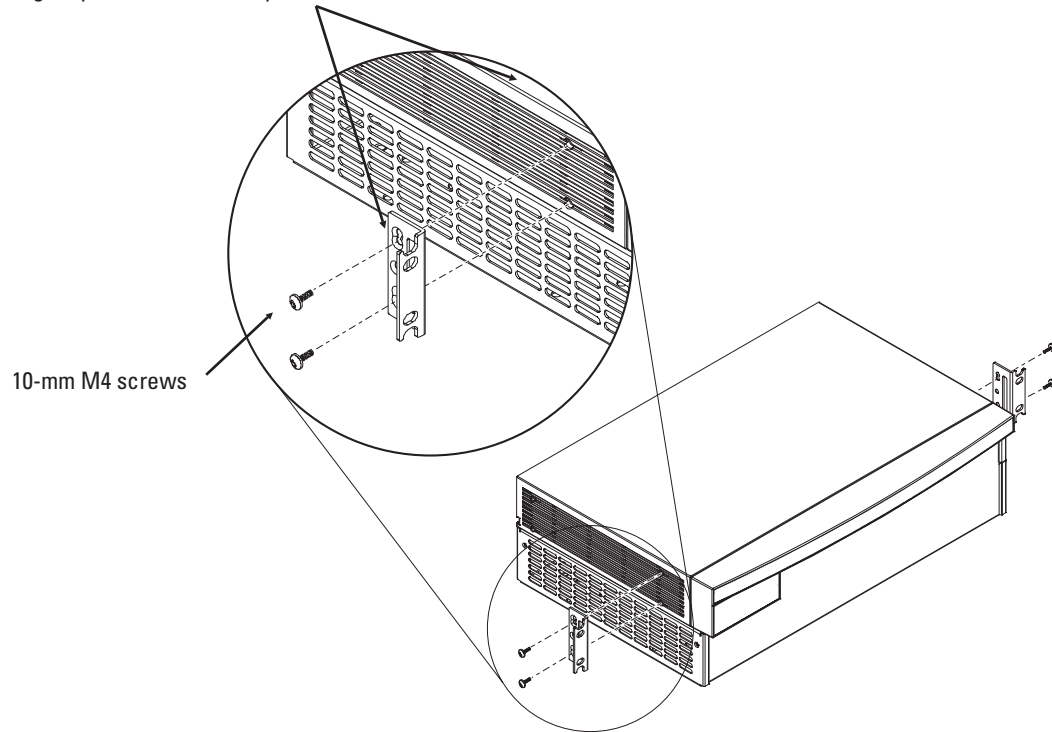
Rack Mounting

Warning

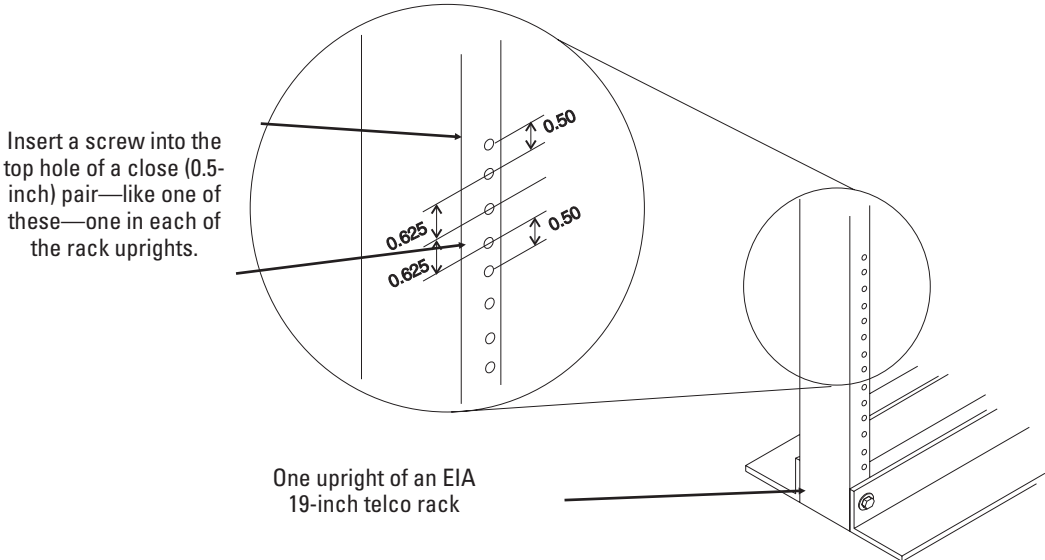
The rack or cabinet should be adequately secured to prevent it from becoming unstable and/or falling over.

1. Using a Phillips (cross-head) screwdriver, attach the mounting brackets to the RPS with the 10-mm M4 screws included in the accessory kit (5063-8522). The top of each bracket should align with the top of the RPS. Be careful not to overtighten the screws.
2. Partially install a screw (5/8-inch number 12-24 included in the accessory kit) in each rack upright. Ensure that the screws in each upright are at the same level.

align top of bracket with top of RPS



If you are stacking hubs and the RPS in a single rack and want them to fit tightly, the selection of the first screw holes is important. In a standard 19-inch telco rack, the screw hole pattern has repetitive pairs of holes separated by 0.5-inch or 0.625-inch. Insert these first screws in the upper hole of a close (0.5-inch) pair, as shown in the illustration.

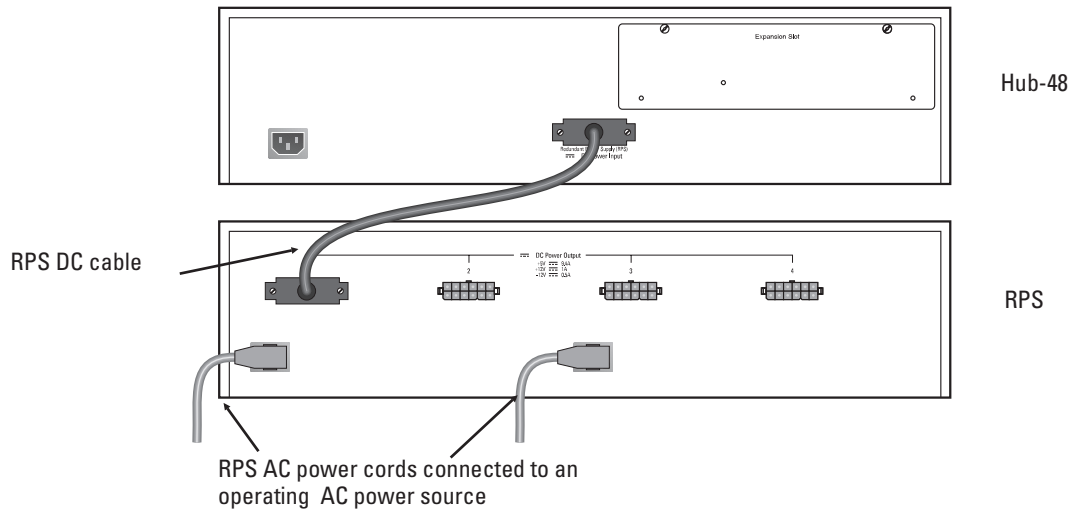


Installation Summary

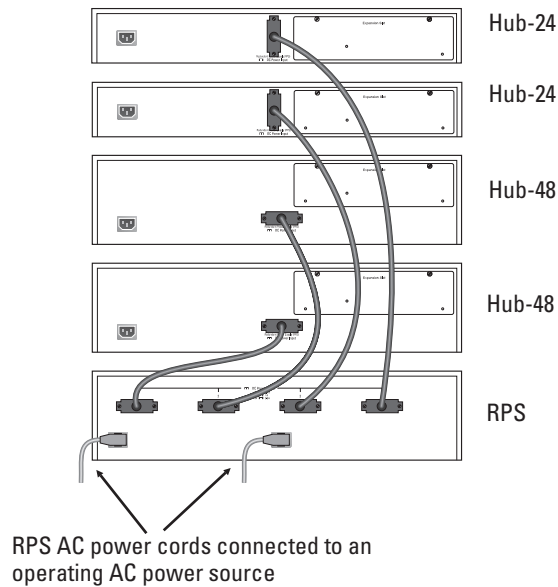
2. Connect the RPS to Supported Devices

To connect the RPS to one or more devices, follow these steps:

1. Select up to four devices that need redundant power, for example, the HP J2601B AdvanceStack 10Base-T Hub-24 or the HP J2602B AdvanceStack 10Base-T Hub-48.
2. Notify the users on these devices that the network will be down temporarily.
3. Disconnect the AC power cord from the selected device and store the AC power cord.
4. Connect a DC cable (8120-6777) to the RPS and to the RPS connector on the selected device. The following illustration shows the HP Hub-48 connected to the RPS.



- Repeat step 1 through 4 for each device to receive redundant power. With four devices connected to the RPS, your rack would appear similar to the following illustration:



3. Verify the RPS's Operation

To verify the operation of the RPS, follow these steps:

- Connect both of the included RPS AC power cords from the RPS AC Power connector to a reliable AC power source. HP recommends two separate AC power lines for added redundancy.
- Check the LEDs on the RPS's front panel:

During Power-On:	All LEDs are on for one second.
After Power-On:	AC Power LEDs are on. Connected DC Power Output LEDs are on. Fan is on.

If the Fault LED is on, see the troubleshooting table on page 12.

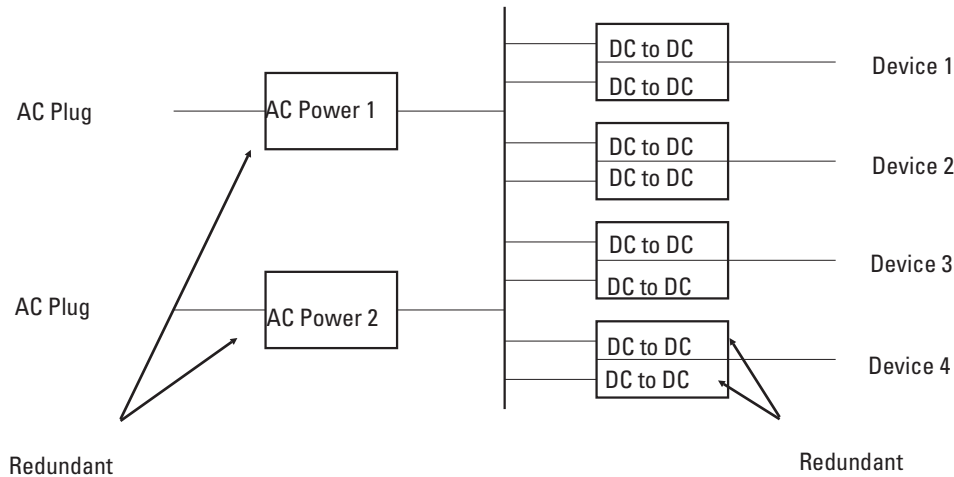
How the RPS Works

The RPS is fully redundant at both the AC power and DC power connectors.

AC Power Redundancy

Each RPS contains two AC power supplies. Each AC power supply is connected to one AC power connector and converts AC to DC power. While the RPS is receiving power, the two power supplies load share a device (such as a hub).

If one of the AC power supply components were to fail, the other AC power supply component will instantly supply power to all of the connected devices (e.g., hubs). During the transition, the connected devices will neither be reset nor interrupted. In the following illustration, if the AC Power 1 supply fails, AC Power 2 continues to provide power to the connected devices.



DC Power Redundancy

On the DC connector side, there are two DC to DC converters per DC Output connector. If one of the converters were to fail, the other would continue to provide power to the connected device. During the transfer from one DC to another, the device receives uninterrupted power. In the above illustration, if one of the DC to DC converters failed for Device 4, the second DC to DC continues to provide uninterrupted power.

Frequently Asked Questions

The following table lists questions and answers about the Redundant Power Supply:

Question	Answer
What is the difference between a UPS and an RPS?	<p>A UPS (Uninterruptible Power Supply) is an external power backup device. The UPS serves as a battery backup, so that if your AC power source fails (as in a brownout or blackout), the UPS will still provide power. To order an HP UPS, call 1-800-538-8787.</p> <p>An RPS (Redundant Power Supply) is an internal power backup device. Each component of an RPS is duplicated (redundant), so that if one power supply component fails the RPS will still provide power.</p>
Should I keep my device's AC power cord connected?	No. This configuration is not supported by HP.
I have only one device connected to the RPS. What would happen if I connected only one AC power cord to the RPS?	You will have redundant DC power but not redundant AC power.
If I connect a DC cable to DC Power Output 1 and an AC power cord to AC Power 2 , will the device receive power?	Yes. However, you should connect both RPS AC power cables to two separate AC power sources for maximum redundancy.
If I connect two devices to the RPS, do I have to use any particular DC output connectors?	No. Pick any two DC Output connectors.
Do I have to plug both AC power cords into different AC power sources?	We recommend that you connect each AC power cord to a different AC power source but it is not required.

Troubleshooting

The front of the RPS provides a quick reference troubleshooting guide. For more details use the following table to diagnose your RPS.

LED	State	Meaning of LED
AC Power (green)	On	The RPS is receiving power.
	Off	The RPS is not receiving power on both AC inputs.
	Flash	The RPS is not receiving power from one of the AC inputs. Verify that both of the AC power cords are plugged into an operating AC power source.
DC Power Out (green)	On	A device is connected to the DC Power Out connector and is receiving redundant power.
	Off	A device is not connected to one of the DC Output connectors. Verify the device is connected properly. If the connector appears snug on both ends, try using a different DC power cord.
	Flash	A device is connected to the RPS but one of the DC to DC converters has failed. The other DC to DC is still providing power. Call your HP Authorized Dealer or the nearest HP Sales and Support office.
Overtemp (orange)	Off	The RPS is running at a normal temperature.
	Flash	The RPS has reached 70°C or higher, and needs more adequate ventilation.
Fan (green)	On	The fans are on and operating normally.
	Flash	One or both of the fans has malfunctioned.
Fault (orange)	Off	No faults have been detected on the RPS.
	Flash	A failure has been detected. The corresponding LED will also flash.

HP Customer Support Services

HP offers customer support services for the RPS:

- HP BBS and World Wide Web
- HP FTP Library Service
- CompuServe
- HP FIRST Fax Retrieval Service
- HP Network Phone-In Support

HP Interconnect Manager (*icmupdt.exe*), HP Stack Manager (*stkmgr.exe*) and SNMP firmware for your AdvanceStack hubs (*asfw.exe*) are available through the HP BBS, World Wide Web, CompuServe, and the HP FTP Library Service. After you download the file(s) from one of these sources, you type *filename /x*. For example, *icmupdt.exe /x*

HP BBS and World Wide Web

The HP BBS phone number is (208) 344-1691. Set your modem communication settings to:

- parity = N
- data bits = 8
- stop bits = 1
- baud rates = 300, 1200, 2400, 4800, 9600, or 14400

The URL address for the World Wide Web is:

http://www.hp.com/go/network_city

From this web site, you can download files and learn about HP networking products. After you download the file, extract the file (e.g., *icmupdt/x*)

Troubleshooting

Hewlett-Packard FTP Library Service

To access the HP FTP Library, follow these steps:

1. Enter the command:
`ftp ftp-boi.external.hp.com`
The ftp> prompt appears.
2. At the ftp > prompt, enter:
`anonymous`
3. At the password prompt, enter your internet e-mail address.
4. At the ftp > prompt, set the file type to binary:
`binary`
5. Retrieve the file by entering:
`get filename.exe` (For example, `icmupdt.exe`)
6. Quit the FTP session by entering:
`quit`
7. Extract the file (e.g., `icmupdt /x`)

CompuServe

CompuServe is an electronic information and communication service run by an independent company. The service is typically accessed with a computer and modem and uses standard voice telephone lines for transmitting and receiving data. CompuServe is available 24 hours-a-day, seven days per week. The participants pay a monthly fee as well as an hourly connect charge for this service. To get the latest HP software, follow these steps:

1. Login to CompuServe.
2. Type: go hpsys
3. Type: lib 7
4. Type: download *filename.exe* (e.g., download icmupdt.exe)
5. Log off CompuServe.
6. Extract the file (e.g., icmupdt/x)

HP FIRST Fax Retrieval Service

HP FIRST is an automated fax retrieval service that is available 24 hours a day, seven days a week. HP FIRST provides information on product information, troubleshooting, technical reviews, and configuration information.

To access HP FIRST, dial one of the following phone numbers from your touch-tone telephone:

Location	Phone Number
U.S. and Canada Only	(800) 333-1917 and press 1 for HP FIRST
Outside the U.S. and Canada	(208) 344-4809 and press 9 for HP FIRST

To receive a list of currently available documents, enter document number 19941. The information you requested will be sent to you by return fax.

HP Network Phone-In Support (NPS)

Call your HP Authorized Dealer or the nearest HP Sales and Support Office. In addition, the HP Network Phone-In Support (NPS) service provides expert technical assistance for U.S.A. customers through an NPS contract or at an hourly rate (1-800-790-5544) 24 hours a day.

Specifications

Physical

Width:	29.7 cm (11.7 in)	Height:	13.6 cm (5.3 in)
Depth:	44.5 cm (17.5 in)	Weight:	9.9 kg (22 lb)

Electrical

AC voltage:	100–127 volts (Voltage tolerance of +/- 10%)	200-240 volts (Voltage tolerance of +/- 10%)
Maximum current:	5.0 A	9.0 A
Frequency range:	50/60 Hz	50/60 Hz
DC voltage:	65 watts per DC connector 5 volts, 12 volts, -12 volts 9.4 A at 5 volts 1.0 A at 12 volts 0.5 A at -12 volts	

Environmental

	Operating	Non-Operating
Temperature:	0°C to 55°C (32°F to 131°F)	-40°C to 70°C (-40°F to 158°F)
Relative humidity: (non-condensing)	15% to 95% at 40°C (104°F)	90% at 65°C (149°F)
Maximum altitude:	4.6 km (15,000 ft)	4.6 km (15,000 ft)

Safety

IEC 950: (1991)+A1,A2/.EN60950 I(1992)+A1,A2
UL1950 CSA 950
NOM-019-SCFI-1993

(continued on next page)

Electromagnetic

Emissions

FCC part 15 Class A
EN 55022 / CISPR-22 Class A
VCCI Level I

Immunity

See the Declaration of Conformity for details at the end of the Regulatory Statements.

Complies with Canadian EMC Class A requirements.

Acoustic Noise

5.5 Bels max

Safety Information

Safety Symbols



Documentation reference symbol. If the product is marked with this symbol, refer to the product documentation to get more information about the product.

WARNING

A **WARNING** in the manual denotes a hazard that can cause injury or death.

CAUTION

A **CAUTION** in the manual denotes a hazard that can damage equipment.

Do not proceed beyond a **WARNING** or **CAUTION** notice until you have understood the hazardous conditions and have taken appropriate steps.

Grounding

These are safety class I products and have protective earthing terminals. There must be an uninterruptible safety earth ground from the main power source to the product's input wiring terminals, power cord, or supplied power cord set. Whenever it is likely that the protection has been impaired, disconnect the power cord until the ground has been restored.

For LAN cable grounding:

- If your LAN covers an area served by more than one power distribution system, be sure their safety grounds are securely interconnected.
- LAN cables may occasionally be subject to hazardous transient voltages (such as lightning or disturbances in the electrical utilities power grid). Handle exposed metal components of the network with caution.

Servicing

There are no user-serviceable parts inside these products. Any servicing, adjustment, maintenance, or repair must be performed only by service-trained personnel.

These products do not have a power switch; they are powered on when the power cord is plugged in.

Informations concernant la sécurité

Symboles de sécurité



Symbole de référence à la documentation. Si le produit est marqué de ce symbole, reportez-vous à la documentation du produit afin d'obtenir des informations plus détaillées.

WARNING

Dans la documentation, un WARNING indique un danger susceptible d'entraîner des dommages corporels ou la mort.

CAUTION

Un texte de mise en garde intitulé CAUTION indique un danger susceptible de causer des dommages à l'équipement.

Ne continuez pas au-delà d'une rubrique WARNING ou CAUTION avant d'avoir bien compris les conditions présentant un danger et pris les mesures appropriées.

Cet appareil est un produit de classe I et possède une borne de mise à la terre. La source d'alimentation principale doit être munie d'une prise de terre de sécurité installée aux bornes du câblage d'entrée, sur le cordon d'alimentation ou le cordon de raccordement fourni avec le produit. Lorsque cette protection semble avoir été endommagée, débrancher le cordon d'alimentation jusqu'à ce que la mise à la terre ait été réparée.

Mise à la terre du câble de réseau local:

- si votre réseau local s'étend sur une zone desservie par plus d'un système de distribution de puissance, assurez-vous que les prises de terre de sécurité soient convenablement interconnectées.
- Les câbles de réseaux locaux peuvent occasionnellement être soumis à des surtensions transitoires dangereuses (telles que la foudre ou des perturbations dans le réseau d'alimentation public). Manipulez les composants métalliques du réseau avec précautions.

Aucune pièce contenue à l'intérieur de ce produit ne peut être réparée par l'utilisateur. Tout dépannage, réglage, entretien ou réparation devra être confié exclusivement à un personnel qualifié.

Cet appareil ne comporte pas de commutateur principal ; la mise sous tension est effectuée par branchement du cordon d'alimentation.

Hinweise zur Sicherheit

Sicherheitssymbole



Symbol für Dokumentationsverweis. Wenn das Produkt mit diesem Symbol markiert ist, schlagen Sie bitte in der Produktdokumentation nach, um mehr Informationen über das Produkt zu erhalten.

WARNING

Eine WARNING in der Dokumentation symbolisiert eine Gefahr, die Verletzungen oder sogar Todesfälle verursachen kann.

CAUTION

CAUTION in der Dokumentation symbolisiert eine Gefahr, die das Gerät beschädigen kann.

Fahren Sie nach dem Hinweis WARNING oder CAUTION erst fort, nachdem Sie den Gefahrenzustand verstanden und die entsprechenden Maßnahmen ergriffen haben.

Dies ist ein Gerät der Sicherheitsklasse I und verfügt über einen schützenden Erdungsterminal. Der Betrieb des Geräts erfordert eine ununterbrochene Sicherheitserdung von der Hauptstromquelle zu den Geräteingabeterminals, den Netzkabeln oder dem mit Strom belieferten Netzkabelsatz voraus. Sobald Grund zur Annahme besteht, daß der Schutz beeinträchtigt worden ist, das Netzkabel aus der Wandsteckdose herausziehen, bis die Erdung wiederhergestellt ist.

Für LAN-Kabelerdung:

- Wenn Ihr LAN ein Gebiet umfaßt, das von mehr als einem Stromverteilungssystem beliefert wird, müssen Sie sich vergewissern, daß die Sicherheitserdungen fest untereinander verbunden sind.
- LAN-Kabel können gelegentlich gefährlichen Übergangsspannungen ausgesetzt werden (beispielsweise durch Blitz oder Störungen in dem Starkstromnetz des Elektrizitätswerks). Bei der Handhabung exponierter Metallbestandteile des Netzwerkes Vorsicht walten lassen.

Dieses Gerät enthält innen keine durch den Benutzer zu wartenden Teile. Wartungs-, Anpassungs-, Instandhaltungs- oder Reparaturarbeiten dürfen nur von geschultem Bedienungspersonal durchgeführt werden.

Dieses Gerät hat keinen Netzschalter; es wird beim Anschließen des Netzkabels eingeschaltet.

Considerazioni sulla sicurezza

Simboli di sicurezza



Simbolo di riferimento alla documentazione. Se il prodotto è contrassegnato da questo simbolo, fare riferimento alla documentazione sul prodotto per ulteriori informazioni su di esso.

WARNING

La dicitura WARNING denota un pericolo che può causare lesioni o morte.

CAUTION

La dicitura CAUTION denota un pericolo che può danneggiare le attrezzature.

Non procedere oltre un avviso di WARNING o di CAUTION prima di aver compreso le condizioni di rischio e aver provveduto alle misure del caso.

Questo prodotto è omologato nella classe di sicurezza I ed ha un terminale protettivo di collegamento a terra. Dev'essere installato un collegamento a terra di sicurezza, non interrompibile che vada dalla fonte d'alimentazione principale ai terminali d'entrata, al cavo d'alimentazione oppure al set cavo d'alimentazione fornito con il prodotto. Ogniquale volta vi sia probabilità di danneggiamento della protezione, disinserite il cavo d'alimentazione fino a quando il collegamento a terra non sia stato ripristinato.

Per la messa a terra dei cavi LAN:

- se la vostra LAN copre un'area servita da più di un sistema di distribuzione elettrica, accertatevi che i collegamenti a terra di sicurezza siano ben collegati fra loro;
- i cavi LAN possono occasionalmente andare soggetti a pericolose tensioni transitorie (ad esempio, provocate da lampi o disturbi nella griglia d'alimentazione della società elettrica); siate cauti nel toccare parti esposte in metallo della rete.

Nessun componente di questo prodotto può essere riparato dall'utente. Qualsiasi lavoro di riparazione, messa a punto, manutenzione o assistenza va effettuato esclusivamente da personale specializzato.

Questo apparato non possiede un commutatore principale; si mette sotto tensione all'inserirsi il cavo d'alimentazione.

Consideraciones sobre seguridad

Símbolos de seguridad



Símbolo de referencia a la documentación. Si el producto va marcado con este símbolo, consultar la documentación del producto a fin de obtener mayor información sobre el producto.

WARNING

Una **WARNING** en la documentación señala un riesgo que podría resultar en lesiones o la muerte.

CAUTION

Una **CAUTION** en la documentación señala un riesgo que podría resultar en averías al equipo.

No proseguir después de un símbolo de **WARNING** o **CAUTION** hasta no haber entendido las condiciones peligrosas y haber tomado las medidas apropiadas.

Este aparato se enmarca dentro de la clase I de seguridad y se encuentra protegido por una borna de puesta a tierra. Es preciso que exista una puesta a tierra continua desde la toma de alimentación eléctrica hasta las bornas de los cables de entrada del aparato, el cable de alimentación o el juego de cable de alimentación suministrado. Si existe la probabilidad de que la protección a tierra haya sufrido desperfectos, desenchufar el cable de alimentación hasta haberse subsanado el problema.

Puesta a tierra del cable de la red local (LAN):

- Si la LAN abarca un área cuyo suministro eléctrico proviene de más de una red de distribución de electricidad, cerciorarse de que las puestas a tierra estén conectadas entre sí de modo seguro.
- Es posible que los cables de la LAN se vean sometidos de vez en cuando a voltajes momentáneos que entrañen peligro (rayos o alteraciones en la red de energía eléctrica). Manejar con precaución los componentes de metal de la LAN que estén al descubierto.

Este aparato no contiene pieza alguna susceptible de reparación por parte del usuario. Todas las reparaciones, ajustes o servicio de mantenimiento debe realizarlos solamente el técnico.

Este producto no tiene interruptor de potencia; se activa cuando se enchufa el cable de alimentación.

Safety Information

安全性の考慮

安全記号



マニュアル参照記号。製品にこの記号がついている場合はマニュアルを参照し、注意事項等をご確認ください。

警告 マニュアル中の「警告」は人身事故の原因となる危険を示します。

注意 マニュアル中の「注意」は装置破損の原因となる危険を示します。

「警告」や「注意」の項は飛ばさないで必ずお読みください。危険性に関する記載事項をよく読み、正しい手順に従った上で次の事項に進んでください。

これは安全性クラス I の製品で保護用接地端子を備えています。主電源から製品の入力配線端子、電源コード、または添付の電源コード・セットまでの間、切れ目のない安全接地が存在することが必要です。もしこの保護回路が損なわれたことが推測されるときは、接地が修復されるまで電源コードを外しておいてください。

LAN ケーブルの接地に関して:

- もし貴社の LAN が複数の配電システムにより電力を受けている領域をカバーしている場合には、それらのシステムの安全接地が確実に相互に結合されていることを確認してください。
- LAN ケーブルは時として危険な過度電圧 (例えば雷や、配電設備の電力網での障害) にさらされることがあります。露出した金属部分の取扱には十分な注意をはらってください。

本製品の内部にはユーザーが修理できる部品はありません。サービス、調整、保守および修理はサービス訓練を受けた専門家におまかせください。

本製品には電源スイッチがありません。電源コードを接続したとき電源入となります。

Regulatory Statements

FCC Statement (For U.S.A. Only)

Federal Communications Commission Radio Frequency Interference Statement

Warning: This equipment generates, uses, and can radiate radio frequency energy. If it is not installed and used in accordance with the instruction manual, it may cause interference to radio communications. It has been tested and found to comply with the limits for a Class A computing device pursuant to Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference when operated in a commercial environment. Operation of this equipment in a residential area is likely to cause interference, in which case the user at his own expense will be required to take whatever measures may be required to correct the interference.

If this equipment causes interference to radio reception (which can be determined by unplugging the power cord from the equipment) try these measures: Re-orient the receiving antenna. Relocate the equipment with respect to the receiver. Plug the equipment and receiver into different branch circuits. Consult your dealer or an experienced technician for additional suggestions.

VCCI Class 1 (For Japan Only)

この装置は、第一種情報装置(商工業地域において使用されるべき情報装置)で商工業地域での電波障害防止を目的とした情報処理装置等電波障害自主規制協議会(VCCI)基準に適合しております。

従って、住宅地域またはその隣接した地域で使用すると、ラジオ、テレビジョン受信機等に受信障害を与えることがあります。

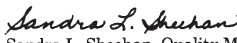
取扱説明書に従って正しい取り扱いをして下さい。

Note

This is a class A product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.

Declaration of Conformity

The following Declaration of Conformity for the HP AdvanceStack Redundant Power Supply complies with ISO/IEC Guide 22 and EN 45014. The declaration identifies the product, the manufacturer's name and address, and the applicable specifications that are recognized in the European community.

DECLARATION OF CONFORMITY according to ISO/IEC Guide 22 and EN45014	
Manufacturer's Name:	Hewlett-Packard Company
Manufacturer's Address:	8000 Foothills Blvd. Roseville, CA 95747 - 5551 U.S.A.
declares that the product:	
Product Name:	AdvanceStack Redundant Power Supply RPS
Model Number:	HP J2962A
conforms to the following Product Specifications:	
Safety:	IEC 950:1991+A1,A2/EN60950 (1992)+A1,A2
EMC:	EN 55022 (1988) / CISPR-22 (1985) class A EN50082-1 (1992) prEN 55024-2 (1992) / IEC 801-2 (1991) 4 kV CD, 8 kV AD prEN 55024-3 (1991) / IEC 801-3 (1984), 3 V/m prEN 55024-4 (1992) / IEC 801-4 (1988): 1 kV-(power line) 0.5 kV-(signal line)
Supplementary Information:	
The product herewith complies with the requirements of the Low Voltage Directive 73/23/EEC and the EMC Directive 89/336/EEC and carries the CE marking accordingly.	
Tested with Hewlett-Packard Co. products only.	
Roseville, August 29, 1995	 Sandra L. Sheehan, Quality Manager
European Contact: Your local Hewlett-Packard Sales and Service Office or Hewlett-Packard GmbH, Department TRE, Herrenberger Strasse 130, D-71034 Böblingen (FAX:+49-7031-14-3143)	

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