



**Powerware® 9125 Two-in-One
PowerPass®
User's Guide**

For use with the Powerware 9125 Two-in-One
700–2000 VA UPS Models

Requesting a Declaration of Conformity

Units that are labeled with a CE mark comply with the following harmonized standards and EU directives:

- Harmonized Standards: EN 62040-1-1 and EN 50091-2; IEC 60950-1
- EU Directives: 73/23/EEC, Council Directive on equipment designed for use within certain voltage limits
93/68/EEC, Amending Directive 73/23/EEC
89/336/EEC, Council Directive relating to electromagnetic compatibility
92/31/EEC, Amending Directive 89/336/EEC relating to EMC

The EC Declaration of Conformity is available upon request for products with a CE mark. For copies of the EC Declaration of Conformity, contact:

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Class B EMC Statements

FCC Part 15

NOTE This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

ICES-003

This Class B Interference Causing Equipment meets all requirements of the Canadian Interference Causing Equipment Regulations ICES-003.

Cet appareil numérique de la classe B respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

VCCI Notice

この装置は、情報処理装置等電波障害自主規制協議会（VCCI）の基準に基づくクラスB情報技術装置です。この装置は、家庭環境で使用することを目的としていますが、この装置がラジオやテレビジョン受信機に近接して使用されると、受信障害を引き起こすことがあります。
取扱説明書に従って正しい取り扱いをして下さい。

Special Symbols

The following are examples of symbols used on the UPS or accessories to alert you to important information:



RISK OF ELECTRIC SHOCK - Indicates that a risk of electric shock is present and the associated warning should be observed.



CAUTION: REFER TO OPERATOR'S MANUAL - Refer to your operator's manual for additional information, such as important operating and maintenance instructions.



RJ-45 RECEPTACLE - For 240V models only: this receptacle provides network interface connections. Do not plug telephone or telecommunications equipment into this receptacle.



This symbol indicates that you should not discard the UPS or the UPS batteries in the trash. This product contains sealed, lead-acid batteries and must be disposed of properly. For more information, contact your local recycling/reuse or hazardous waste center.



This symbol indicates that you should not discard waste electrical or electronic equipment (WEEE) in the trash. For proper disposal, contact your local recycling/reuse or hazardous waste center.

Table of Contents

- 1 Introduction 1**
 - Safety Warnings 1
- 2 Installation 13**
 - Inspecting the Equipment 13
 - PowerPass Installation 13
 - PowerPass Rear Panels 15
- 3 Operation 17**
 - Load Segments 17
 - Using Maintenance Bypass 17
- 4 Specifications 19**
- 5 Service and Support 20**

Chapter 1 Introduction

The PowerPass® is designed to operate with a 700–2000 VA Powerware® 9125 uninterruptible power system (UPS). The PowerPass allows you to:

- Replace or upgrade the UPS without losing power to the protected equipment (see “Using Maintenance Bypass” on page 17).
- Provide surge protection if the UPS is not present.
- Provide extra surge protection when the UPS is present.
- Protect a laser printer against power surges without overloading the UPS (not available on 2000 VA, 120V models).

Safety Warnings

IMPORTANT SAFETY INSTRUCTIONS SAVE THESE INSTRUCTIONS

This manual contains important instructions that you should follow during installation and maintenance of the UPS and batteries. Please read all instructions before operating the equipment and save this manual for future reference.



DANGER

This UPS contains **LETHAL VOLTAGES**. All repairs and service should be performed by **AUTHORIZED SERVICE PERSONNEL ONLY**. There are **NO USER SERVICEABLE PARTS** inside the UPS.



WARNING

To reduce the risk of fire or electric shock, install this UPS in a temperature and humidity controlled, indoor environment, free of conductive contaminants. Ambient temperature must not exceed 40°C (104°F). Do not operate near water or excessive humidity (95% maximum).

Sikkerhedsanvisninger

VIGTIGE SIKKERHEDSANVISNINGER GEM DISSE ANVISNINGER

Denne manual indeholder vigtige instruktioner, som skal følges under installation og vedligeholdelse af UPS'en og PDU. Læs venligst alle instruktioner inden betjening af udstyret og gem denne manual mhp. fremtidige opslag.

FARE



Denne UPS indeholder LIVSFARLIG HØJSPÆNDING. Alle reparationer og vedligeholdelse bør kun udføres af en AUTORISERET SERVICE TEKNIKER. Ingen af UPS'ens indvendige dele kan repareres af brugeren.

ADVARSEL



Installér denne UPS i et temperatur- og fugtighedskontrolleret indendørsmiljø, frit for ledende forureningsstoffer for at formindske risikoen for brand og elektrisk stød. Rumtemperaturen må ikke overstige 40°C. UPS'en bør ikke betjenes nær vand eller høj fugtighed (maksimalt 95%).

Belangrijke Veiligheidsinstructies

BELANGRIJKE VEILIGHEIDSINSTRUCTIES BEWAAR DEZE INSTRUCTIES

Deze handleiding bevat belangrijke instructies die u dient te volgen tijdens de installatie en het onderhoud van de UPS en de PDU. Lees alle instructies voordat u de apparatuur in bedrijf neemt en bewaar deze handleiding als naslagwerk.



GEVAAR

Deze UPS bevat LEVENSGEVAARLIJKE ELEKTRISCHE SPANNING. Alle reparaties en onderhoud dienen UITSLUITEND DOOR ERKEND SERVICEPERSONEEL te worden uitgevoerd. Er bevinden zich GEEN ONDERDELEN in de UPS die DOOR DE GEBRUIKER kunnen worden GEREpareerd.



OPGELET

Teneinde de kans op brand of elektrische schok te verminderen dient deze UPS in een gebouw met temperatuur- en vochtigheidsregeling te worden geïnstalleerd, waar geen geleidende verontreinigingen aanwezig zijn. De omgevingstemperatuur mag 40°C niet overschrijden. Niet gebruiken in de buurt van water of bij zeer hoge vochtigheid (max. 95%).

Tarkeita Turvaohjeita

TÄRKEITÄ TURVAOHJEITA - SUOMI SÄILYTÄ NÄMÄ OHJEET

Tämä käyttöohje sisältää tärkeitä ohjeita, joita on noudatettava UPS-virtalähteen ja PDM asennuksen ja huollon yhteydessä. Lue kaikki ohjeet ennen laitteiston käyttöä ja säilytä ohje myöhempää tarvetta varten.

VAARA



Tämä UPS sisältää HENGENVAARALLISIA JÄNNITTEITÄ. Kaikki korjaukset ja huollot on jätettävä VAIN VALTUUTETUN HUOLTOHENKILÖN TOIMEKSI. UPS ei sisällä MITÄÄN KÄYTTÄJÄN HUOLLETTAVIA OSIA.

VARO



Vähentääksesi tulipalon ja sähköiskun vaaraa asenna tämä UPS sisätiloihin, joissa lämpötila ja kosteus on säädettävissä ja joissa ei ole virtaa johtavia epäpuhtauksia. Ympäristön lämpötila ei saa ylittää 40 °C. Älä käytä lähellä vettä ja vältä kosteita tiloja (95 % maksimi).

Consignes de sécurité

CONSIGNES DE SÉCURITÉ IMPORTANTES CONSERVER CES INSTRUCTIONS

Ce manuel comporte des instructions importantes que vous êtes invité à suivre lors de toute procédure d'installation et de maintenance de PDM et de l'onduleur. Veuillez consulter entièrement ces instructions avant de faire fonctionner l'équipement et conserver ce manuel afin de pouvoir vous y reporter ultérieurement.



DANGER!

Cet onduleur contient des TENSIONS MORTELLES. Toute opération d'entretien et de réparation doit être EXCLUSIVEMENT CONFIEE A UN PERSONNEL QUALIFIE AGRÉÉ. AUCUNE PIÈCE RÉPARABLE PAR L'UTILISATEUR ne se trouve dans l'onduleur.



ATTENTION!

Pour réduire les risques d'incendie et de décharge électrique, installer l'onduleur uniquement à l'intérieur, dans un lieu dépourvu de matériaux conducteurs, où la température et l'humidité ambiantes sont contrôlées. La température ambiante ne doit pas dépasser 40 °C. Ne pas utiliser à proximité d'eau ou dans une atmosphère excessivement humide (95 % maximum).

Sicherheitswarnungen

WICHTIGE SICHERHEITSANWEISUNGEN AUFBEWAREN

Dieses Handbuch enthält wichtige Anweisungen, die Sie während der Installation und Wartung des USV (Unterbrechungsfreies Stromversorgungssystem) und der PDM befolgen müssen. Bitte lesen Sie alle Anweisungen des Handbuches bevor sie mit dem Gerät arbeiten. Bewahren Sie das Handbuch zum Nachlesen auf.



WARNUNG

Die USV führt lebensgefährliche Spannungen. Alle Reparatur- und Wartungsarbeiten sollten nur von Kundendienstfachleuten durchgeführt werden. Die USV enthält keine vom Benutzer zu wartenden Komponenten.



VORSICHT!

Um die Brand- oder Elektroschockgefahr zu verringern, diese USV nur in Gebäuden mit kontrollierter Temperatur und Luftfeuchtigkeit installieren, in denen keine leitenden Schmutzstoffen vorhanden sind. Die Umgebungstemperatur darf 40°C nicht übersteigen. Die USV nicht in der Nähe von Wasser oder in extrem hoher Luftfeuchtigkeit (max. 95 %) betreiben.

Avvisi di sicurezza

IMPORTANTI ISTRUZIONI DI SICUREZZA CONSERVARE QUESTE ISTRUZIONI

Il presente manuale contiene importanti istruzioni da seguire durante l'installazione e la manutenzione dell'UPS e dell'PDM. Leggere integralmente le istruzioni prima di utilizzare l'apparecchiatura e conservare il presente manuale per futuro riferimento.



PERICOLO

La TENSIONE contenuta in questo gruppo statico di continuità è LETALE. Tutte le operazioni di riparazione e di manutenzione devono essere effettuate ESCLUSIVAMENTE DA PERSONALE TECNICO AUTORIZZATO. All'interno del gruppo statico di continuità NON vi sono PARTI RIPARABILI DALL'UTENTE.



ATTENZIONE

Per ridurre il rischio di incendio o di scossa elettrica, installare il gruppo statico di continuità in un ambiente interno a temperatura ed umidità controllata, privo di agenti contaminanti conduttivi. La temperatura ambiente non deve superare i 40°C. Non utilizzare l'unità in prossimità di acqua o in presenza di umidità eccessiva (95% max).

Viktig Sikkerhetsinformasjon**VIKTIGE SIKKERHETSINSTRUKSJONER
GJEM DISSE INSTRUKSJONENE**

Denne håndboken inneholder viktige instruksjoner som du bør overholde ved montering og vedlikehold av UPS-enheten og PDM. Les alle instruksjoner før utstyret tas i bruk, og gjem håndboken til fremtidig referanse.

**FARLIG**

Denne UPS'en inneholder LIVSFARLIGE SPENNINGER. All reparasjon og service må kun utføres av AUTORISERT SERVICEPERSONALE. BRUKERE KAN IKKE UTFØRE SERVICE PÅ NOEN AV DELENE i UPS'en.

**FORSIKTIG**

For å redusere fare for brann eller elektriske støt, bør denne UPS'en installeres i et innendørs miljø med kontrollert temperatur og luftfuktighet som er fritt for ledende, forurensende stoffer. Romtemperaturen må ikke overskride 40°C. Den må ikke brukes i nærheten av vann eller ved meget høy luftfuktighet (95% maks.).

Regulamentos de Segurança

INSTRUÇÕES DE SEGURANÇA IMPORTANTES GUARDE ESTAS INSTRUÇÕES

Este manual contém instruções importantes que devem ser seguidas durante a instalação e manutenção do no-break e da PDM. Leia todas as instruções antes de operar o equipamento e guarde este manual para consultá-lo futuramente.



CUIDADO

A UPS contém VOLTAGEM MORTAL. Todos os reparos e assistência técnica devem ser executados **SOMENTE POR PESSOAL DA ASSISTÊNCIA TÉCNICA AUTORIZADO**. Não há nenhuma PEÇA QUE POSSA SER REPARADA PELO USUÁRIO dentro da UPS.



PERIGO

Para reduzir o risco de incêndios ou choques elétricos, instale a UPS em ambiente interno com temperatura e umidade controladas e livres de contaminadores condutíveis. A temperatura ambiente não deve exceder 40°C. Não opere próximo a água ou em umidade excessiva (máx: 95%).

Предупреждения по мерам безопасности

ВАЖНЫЕ УКАЗАНИЯ ПО МЕРАМ БЕЗОПАСНОСТИ СОХРАНИТЕ ЭТИ УКАЗАНИЯ

В данном руководстве содержатся важные инструкции по установке и обслуживанию источника бесперебойного питания (ИБП) и батарей. Перед работой с оборудованием прочтите все инструкции. Сохраните данное руководство для дальнейшего использования.



ОПАСНО

В данном ИБП имеются СМЕРТЕЛЬНО ОПАСНЫЕ НАПРЯЖЕНИЯ. Все работы по ремонту и обслуживанию должны выполняться ТОЛЬКО УПОЛНОМОЧЕННЫМ ОБСЛУЖИВАЮЩИМ ПЕРСОНАЛОМ. Внутри ИБП нет узлов, ОБСЛУЖИВАЕМЫХ ПОЛЬЗОВАТЕЛЕМ.



ОСТОРОЖНО

Для снижения опасности пожара или поражения электрическим током устанавливайте ИБП в закрытом помещении с контролируемыми температурой и влажностью, в котором отсутствуют проводящие загрязняющие вещества. Температура окружающего воздуха не должна превышать 40°C. Не эксплуатируйте устройство около воды или в местах с повышенной влажностью (макс. 95%).

Advertencias de Seguridad

INSTRUCCIONES DE SEGURIDAD IMPORTANTES GUARDE ESTAS INSTRUCCIONES

Este manual contiene instrucciones importantes que debe seguir durante la instalación y el mantenimiento del SIE y del PDM. Por favor, lea todas las instrucciones antes de poner en funcionamiento el equipo y guarde este manual para referencia en el futuro.



PELIGRO

Este SIE contiene VOLTAJES MORTALES. Todas las reparaciones y el servicio técnico deben ser efectuados SOLAMENTE POR PERSONAL DE SERVICIO TÉCNICO AUTORIZADO. No hay NINGUNA PARTE QUE EL USUARIO PUEDA REPARAR dentro del SIE.



PRECAUCIÓN

Para reducir el riesgo de incendio o de choque eléctrico, instale este SIE en un lugar cubierto, con temperatura y humedad controladas, libre de contaminantes conductores. La temperatura ambiente no debe exceder los 40°C. No trabaje cerca del agua o con humedad excesiva (95% máximo).

Säkerhetsföreskrifter

VIKTIGA SÄKERHETSFÖRESKRIFTER SPARA DESSA FÖRESKRIFTER

Den här anvisningen innehåller viktiga instruktioner som du ska följa under installation och underhåll av UPS-enheten och PDM. Läs alla instruktioner innan du använder utrustningen och spara den här anvisningen för framtida referens.



FARA

Denna UPS-enhet innehåller LIVSFARLIG SPÄNNING. ENDAST AUKTORISERAD SERVICEPERSONAL får utföra reparationer eller service. Det finns inga delar som ANVÄNDAREN KAN UTFÖRA SERVICE PÅ inuti UPS-enheten.



VIKTIGT

Minska risken för brand eller elektriska stötar genom att installera denna UPS-enhet inomhus, där temperatur och luftfuktighet är kontrollerade och där inga ledande föroreningar förekommer. Omgivande temperatur får ej överstiga 40°C. Använd inte utrustningen nära vatten eller vid hög luftfuktighet (max 95 %).

Chapter 2 Installation

This section explains:

- Equipment inspection
- PowerPass installation
- PowerPass rear panels

Inspecting the Equipment

If any equipment has been damaged during shipment, keep the shipping cartons and packing materials for the carrier or place of purchase and file a claim for shipping damage. If you discover damage after acceptance, file a claim for concealed damage.

To file a claim for shipping damage or concealed damage: 1) File with the carrier within 15 days of receipt of the equipment; 2) Send a copy of the damage claim within 15 days to your service representative.



NOTE Check the battery recharge date on the shipping carton label. If the date has expired and the batteries were never recharged, do not use the UPS. Contact your service representative.

PowerPass Installation

To install the PowerPass:

1. If the UPS is already installed and operating, continue to Step 3.
2. Install the UPS and optional Extended Battery Modules (EBMs) according to the *Powerware 9125 Two-in-One UPS (700–2000 VA) User's Guide*. Do not start the UPS. Continue to Step 8.
3. Prepare your equipment for shutdown.
4. Press and hold the Off  button for approximately three seconds. The UPS transfers to Standby mode (if utility power is available) and removes power from your equipment.
5. Unplug the UPS; the UPS shuts down in five seconds. All front panel indicators flash briefly prior to shutdown.

6. **For 240V models only.** Disconnect the power cord from the UPS input connector.
7. Disconnect the protected equipment power cord(s) from the UPS.
8. Remove the two screws from the UPS rear panel as shown in Figure 1. Discard the screws.

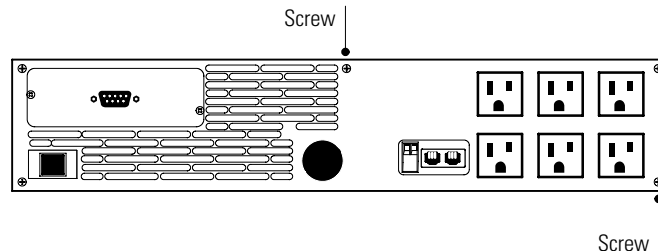


Figure 1. Removing the UPS Screws

9. Verify that both Bypass switches on the PowerPass are in the UPS position (see Figure 2 through Figure 4).
10. Plug the PowerPass into the rear panel of the UPS.
11. Secure the PowerPass with the two supplied mounting screws and retaining washers. Do not overtighten.
12. Plug the equipment to be protected into the appropriate PowerPass output receptacles (see page 17 for more information on load segments).



NOTE The receptacle marked *LASER* is provided for laser printers. The power from this outlet does *NOT* come from the UPS output, but from utility power. During a power outage, this outlet loses power.

13. **For 120V models only.** Plug the UPS power cord into the UPS-input connector on the PowerPass.

For 240V models only. Plug the detachable UPS power cord into the input connector on the PowerPass.

14. Plug the power cord into a power outlet.

All UPS front panel indicators flash briefly and the UPS conducts a self-test. When the self-test is complete, the  indicator flashes, indicating the UPS is in Standby mode.

15. Press the On | button on the UPS front panel.

The ~ indicator illuminates solid and the bar graph indicators display the percentage of load being applied to the UPS. The UPS is now in Normal mode and supplying power to your equipment.

PowerPass Rear Panels

This section shows the rear panels of the Powerware 9125 PowerPass models.

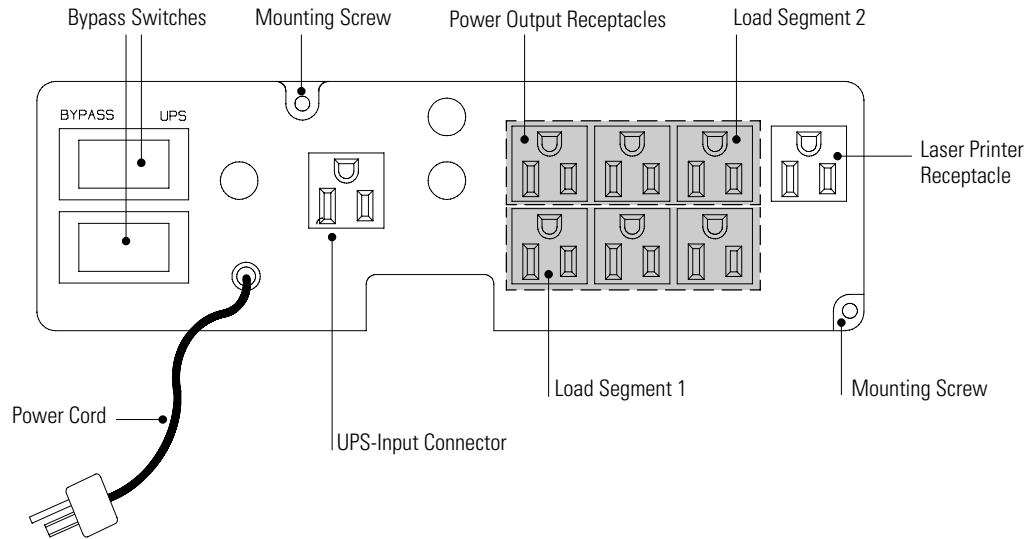


Figure 2. PowerPass for 700–1500 VA, 120V UPS

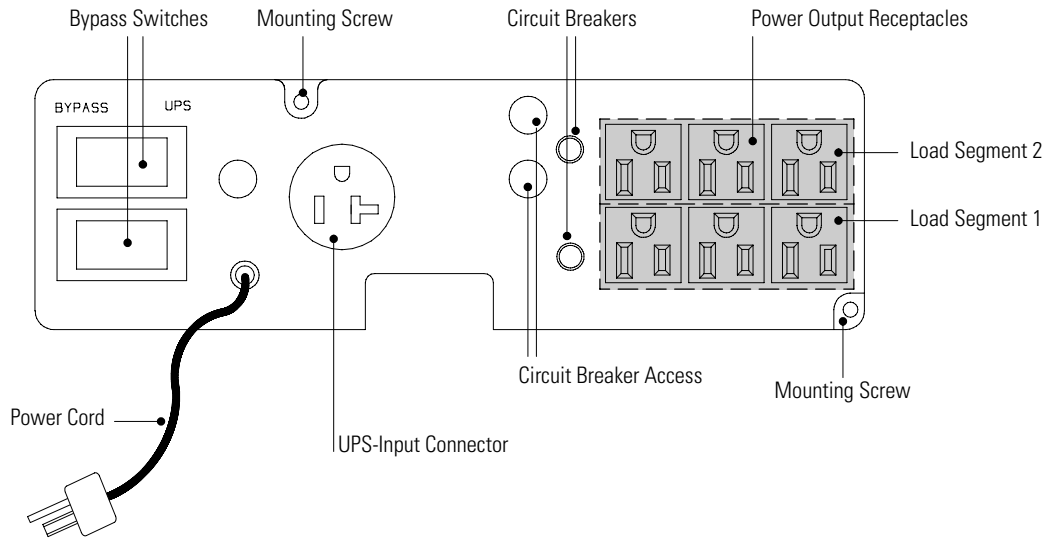


Figure 3. PowerPass for 2000 VA, 120V UPS

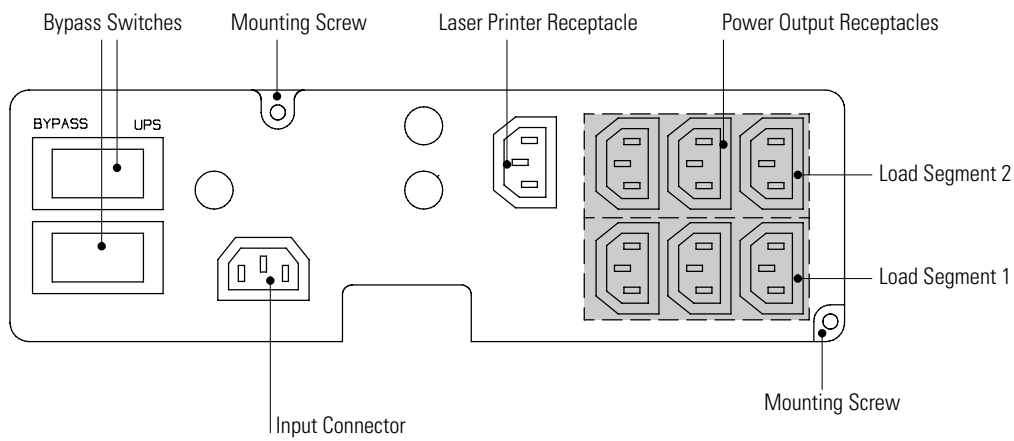


Figure 4. PowerPass for 700–2000 VA, 240V UPS

Chapter 3 Operation

The PowerPass allows for the removal of the UPS while providing power to your protected equipment. This Maintenance Bypass feature is useful when replacing the UPS for maintenance or upgrades.

Load Segments

Load segments are sets of receptacles that can be controlled by power management software, providing an orderly shutdown and startup of your equipment. For example, during a power outage, you can keep key pieces of equipment running while you turn off other equipment. This feature allows you to save battery power. See your power management software manual for details (refer to the Software Suite CD or www.powerware.com for the latest information).



NOTE *If power management software is not used, the individual load segments cannot be controlled.*

NOTE *When the PowerPass is in Bypass mode, all load segments are switched to utility power and cannot be controlled until the PowerPass is switched back to the UPS.*

Each PowerPass has two load segments as shown in Figure 2 through Figure 4 starting on page 15.

Using Maintenance Bypass

To transfer your equipment to Maintenance Bypass (AC Line operation) and remove the UPS:

1. Toggle both Bypass switches on the PowerPass to the BYPASS position. The PowerPass is now powering your equipment from utility power.
2. Press and hold the Off  button on the UPS front panel for approximately three seconds. The UPS transfers to Standby mode.
3. If Extended Battery Modules (EBMs) are installed, unplug the EBM cable from the UPS battery connector.
4. **For 120V models only.** Disconnect the UPS power cord from the PowerPass UPS-input connector.

5. Loosen the two PowerPass mounting screws.
6. Remove the PowerPass from the UPS, being careful not to loosen the power cords plugged into the PowerPass.

To reinstall the UPS and transfer your equipment from Maintenance Bypass (AC Line operation) to the UPS:

1. If optional EBMs are installed, reconnect the EBM cable to the battery connector on the UPS rear panel.
2. **For 120V models only.** Plug the UPS power cord into the PowerPass UPS-input connector.
3. Plug the PowerPass into the rear panel of the UPS.

All UPS front panel indicators flash briefly and the UPS conducts a self-test. When the self-test is complete, the  indicator flashes, indicating the UPS is in Standby mode.

4. Tighten the two PowerPass mounting screws. Do not overtighten.
5. Press the On | button on the UPS front panel.

The  indicator illuminates solid.

6. Toggle both Bypass switches on the PowerPass to the UPS position.

The bar graph indicators display the percentage of load being applied to the UPS. The UPS is now in Normal mode and supplying power to your equipment.

Chapter 4 Specifications

Table 1. Mechanical

PowerPass Models	PW9125 700 for 700–1500 VA, 120V UPS PW9125 700i for 700–2000 VA, 240V UPS PW9125 1000 for 2000 VA, 120V UPS
Dimensions (WxDxH)	27.9 x 11.4 x 8.9 cm (11.0" x 4.5" x 3.5")
Weight	1.1 kg (2.5 lb)

Table 2. Technical

	120V Models	240V Models
Surge Suppression	180V MOVs across input L and N; 100 joule, 6500A peak current rating 320V MOVs each across L to G and N to G; 160 joule; 6500A peak current rating	320V MOVs across input L1 and L2; 160 joule, 6500A peak current rating
Electrostatic Discharge	Withstands 25 kV	
Input Connection to PowerPass	700–1500 VA: 6-ft, 5-15P power cord 2000 VA: 6-ft, 5-20P power cord	10A, IEC 320-C14 input connector
Input Connection to UPS	700–1500 VA: 5-15R mates with UPS 5-15P power cord 2000 VA: 5-20R mates with UPS 5-20P power cord	IEC-320 plug mates with UPS IEC-320 receptacle
Output Receptacles	700–1500 VA: (6) 5-15R; (1) 5-15R for laser printer (unprotected) 2000 VA: (6) 5-15R	(6) IEC 320-C13; (1) IEC 320-C13 for laser printer (unprotected)
UPS AC Output to PowerPass (Plug)	(2) 5-15P connect to UPS AC output	(2) IEC 320-C13 plugs connect to UPS AC output
Operating Temperature	0°C to 40°C (32°F to 104°F) Optimal battery performance: 25°C (77°F)	
Storage Temperature	-20°C to 60°C (-4°F to 140°F)	
Relative Humidity	5–96% noncondensing	

Chapter 5 Service and Support

If you have any questions or problems with the UPS, call your **Local Distributor** or the **Help Desk** at one of the following telephone numbers and ask for a UPS technical representative.

United States: **1-800-356-5737** or **1-919-870-3149**
Canada: **1-800-461-9166 ext 260**
All other countries: **Call your local service representative**

Please have the following information ready when you call the Help Desk:

- Model number
- Serial number
- Version number (if available)
- Date of failure or problem
- Symptoms of failure or problem
- Customer return address and contact information

If repair is required, you will be given a Returned Material Authorization (RMA) Number. This number must appear on the outside of the package and on the Bill Of Lading (if applicable). Use the original packaging or request packaging from the Help Desk or distributor. Units damaged in shipment as a result of improper packaging are not covered under warranty. A replacement or repair unit will be shipped, freight prepaid for all warranted units.



NOTE *For critical applications, immediate replacement may be available. Call the **Help Desk** for the dealer or distributor nearest you.*



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