Overview

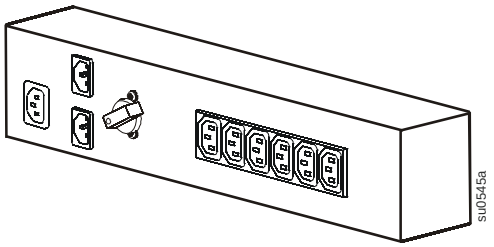
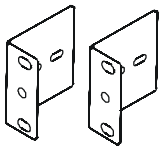
The APC® by Schneider Electric service bypass panel (SBP), provides utility power to connected equipment during UPS maintenance.

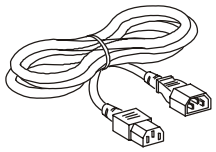
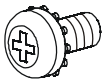
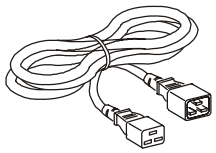
Inventory

Read the Safety Guide before installing the SBP.

Inspect the SBP upon receipt. Notify the carrier and dealer if there is damage.

The package is recyclable; save it for reuse or dispose of it properly.

<table>
<tr><td>
</td><td>
all models (2)

all models (4)</td></tr>
<tr><td>
model 1500RMI (2)</td><td>
all models (2)</td></tr>
<tr><td>
model 3000RMI (2)
model 3000RMHW (1)</td><td>
all models (4)</td></tr>
</table>

Specifications

Electrical Specifications

SKU	Voltage	Amps
SBP1500RM	120 VAC	15 A
SBP1500RMI	230 VAC	10 A
SBP2200RM	120 VAC	20 A
SBP3000RM	120 VAC	30 A
SBP3000RMI	230 VAC	16 A
SBP3000RMHW	208/220/230/240 VAC	16 A

Environmental Specifications

Temperature	**Operating**	0° to 40° C (32° to 104° F)
	Storage	-15° to 45° C (5° to 113° F)
Maximum Elevation	**Operating**	3,000 m (10,000 ft)
	Storage	15,000 m (50,000 ft)
Humidity		0 to 95% relative humidity, non-condensing

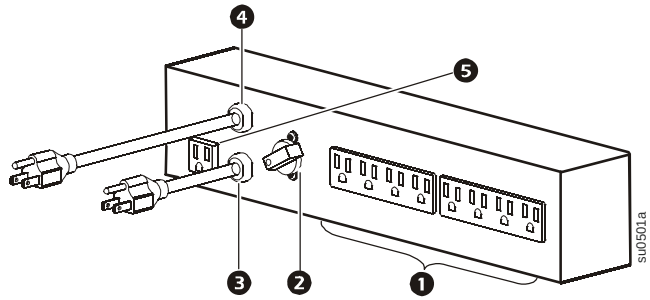
This unit is intended for indoor use only.

Do not operate the service bypass panel where there is excessive dust or the temperature or humidity are outside specified limits.

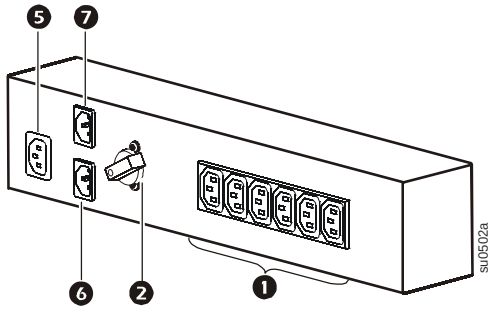
Front Panels

Callout	Description
❶	Equipment outlets
❷	Bypass/UPS switch
❸	UPS output power cord
❹	Utility power cord
❺	UPS input power receptacle
❻	UPS output power receptacle
❼	Utility power receptacle
❽	Utility input terminal block access panel and hardwire knockout
❾	Equipment output terminal block access panel and hardwire knockout
❿	Equipment outlet circuit breaker

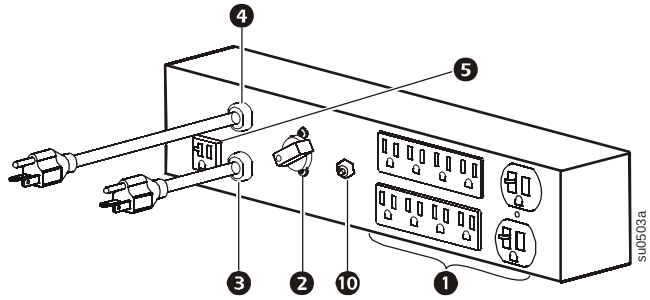
SBP1500RM



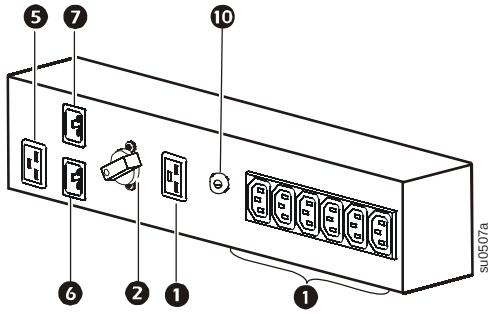
SBP1500RMI



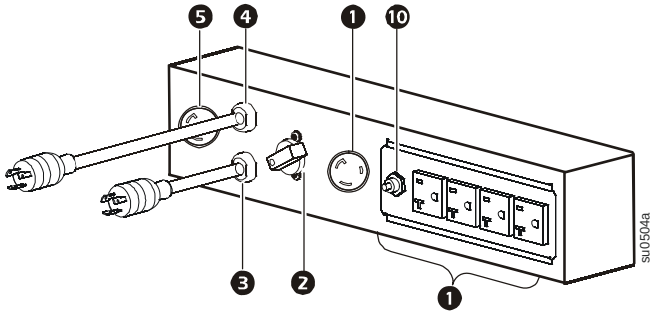
SBP2200RM



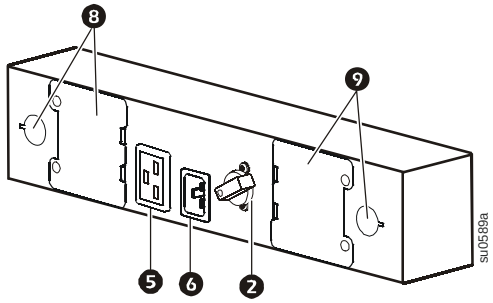
SBP3000RMI



SBP3000RM



SBP3000RMHW

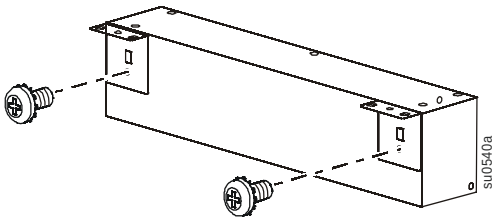


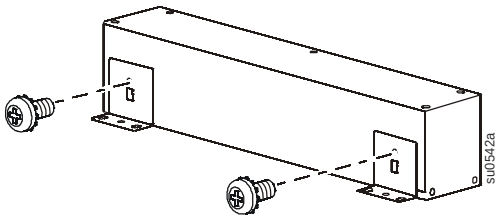
Installation

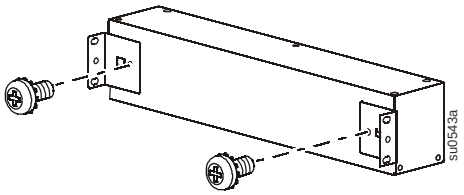
Changes and modifications to this unit not expressly approved by APC could void the warranty.

Wall-Mount Options

Use the rack-mount brackets for both wall and rack installations.



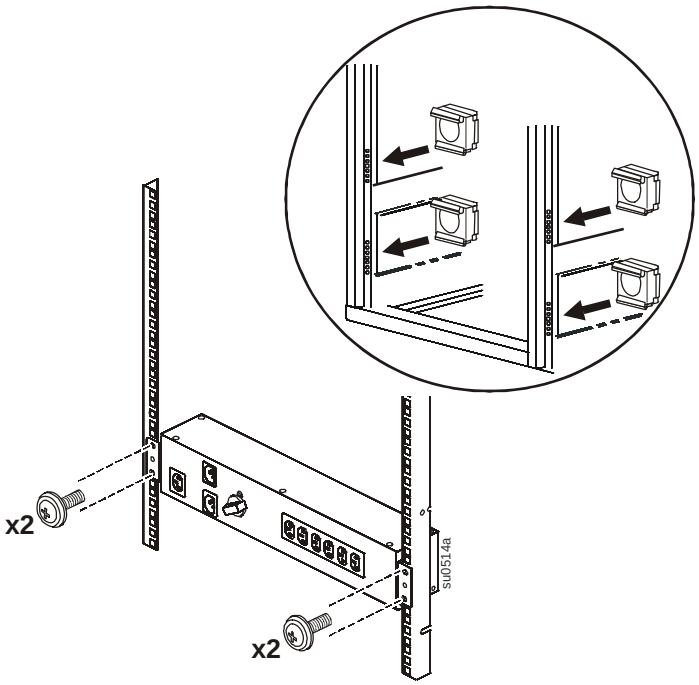


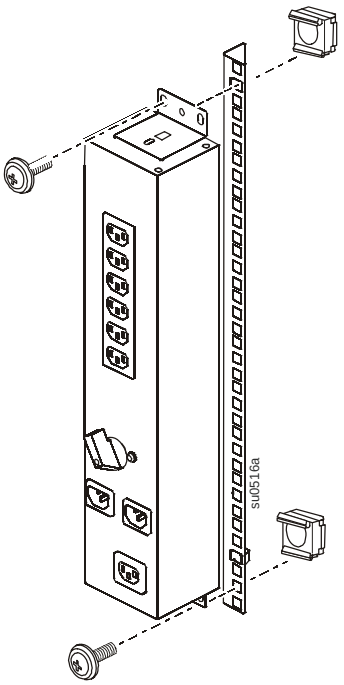


Rack-Mount Options

For horizontal installations use two screws and two cage nuts with each bracket on the SBP.

For vertical installations use one screw and one cage nut with each bracket on the SBP.





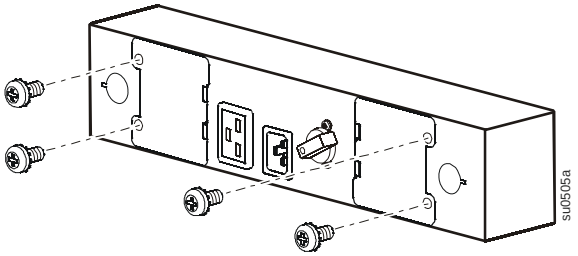
Hardwire the SBP

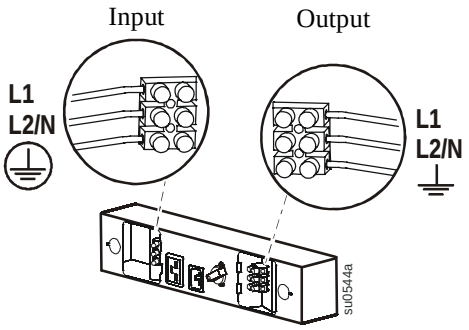
Hardwiring must be performed by a qualified electrician.

Adhere to all national and local electrical codes.

SBP3000RMHW model

1. Switch the utility circuit breaker off.
2. Remove the two screws that secure each access panel to the SBP.
3. Secure the utility power cables, **Line1, Line2/Neutral, Ground** to the input terminal block.
   Apply torque of 0.8 Nm (7 lb-in).
4. Secure the equipment power cables, **Line1, Line2/Neutral, Ground** to the output terminal block.
   Apply torque of 0.8 Nm (7 lb-in).
5. Secure the access panels with the screws removed in step2.
6. Connect the input and output cables on the UPS to the SBP input and output receptacles.
7. Switch the utility breaker on.
8. Turn on the UPS.
9. Turn the SBP **Bypass/UPS** switch to the **UPS** position.





Connect power and equipment to the SBP

1500RM/1500RMI/2200RM/3000RM/3000RMI models

1. Connect the power cord from the UPS to the UPS input receptacle on the SBP.
2. **1500RM/2200RM/3000RM models:** Connect the short UPS output power cord on the SBP to the output receptacle on the UPS.
   1500RMI/3000RMI models: Use the supplied power cord to connect the SBP output power receptacle to the UPS output power receptacle.
3. **1500RM/2200RM/3000RM models:** Connect the long SBP utility power cord to utility power.
   1500RMI/3000RMI models: Connect the supplied power cord to the SBP input power receptacle and to utility power.
4. Connect equipment to the equipment outlets on the SBP.
5. Turn on the UPS
6. Turn the SBP **Bypass/UPS** switch to the **UPS** position.

Operation

Bypass mode

SBP bypass mode enables connected equipment to operate on utility power while UPS maintenance is performed.

Note: Connected equipment is not protected by the UPS while the SBP is in bypass mode.

UPS mode

While the SBP operates in UPS mode, power is supplied to connected equipment from the UPS and is protected from power variations and disturbances.

Troubleshooting

Use the table to solve minor installation and operation problems.
Refer to the APC Web site, **www.apc.com** for assistance with complex problems.

Problem and/or Possible Cause	Solution
The UPS is on, and the SBP output receptacles do not provide power to connected equipment.	1. Some models have equipment outlet circuit breakers. Remove nonessential equipment connected to the SBP. Reset the SBP circuit breaker. 2. Verify the utility power supply. Plug a table lamp into the utility power source. If the light is dim or does not turn on, have the building utility voltage checked by a qualified electrician. 3. Verify the power supply from the UPS. Plug a table lamp into the output receptacle on the UPS. 4. Verify that the SBP is functioning properly. a. Disconnect the UPS from the SBP (input and output). b. Plug the service bypass panel UPS output cord to the service bypass panel input receptacle. c. Plug a table lamp into the SBP equipment outlets to verify functionality of each outlet. d. To test the SBP rotate the **Bypass/UPS** switch to bypass mode position. The lamp should remain illuminated. Rotate the **Bypass/UPS** switch to UPS mode position. The lamp should remain illuminated. 5. If power does not return, the SBP is defective. Contact APC. Refer to “Service” on page 7 in this user manual.

Service

If the unit requires service, do not return it to the dealer. Follow these steps:

1. Review the *Troubleshooting* section of the manual to eliminate common problems.
2. If the problem persists, contact APC Customer Support through the APC Web site, **www.apc.com**.
   a. Note the model number and serial number and the date of purchase. The model and serial numbers are located on the top of the unit.
   b. Call APC Customer Support and a technician will attempt to solve the problem over the phone. If this is not possible, the technician will issue a Returned Material Authorization Number (RMA#).
   c. If the unit is under warranty, the repairs are free.
   d. Service procedures and returns may vary internationally. Refer to the APC Web site for country specific instructions.
3. Pack the unit in its original packaging. If this is not available, refer to **www.apc.com** to obtain a new set.
   Pack the unit properly to avoid damage in transit. Never use foam beads for packaging. Damage sustained in transit is not covered under warranty.
4. Write the RMA# provided by Customer Support on the outside of the package.
5. Return the unit by insured, pre-paid carrier to the address provided by Customer Support.

Transport the unit

1. Shut down and disconnect all connected equipment.
2. Disconnect the unit from utility power.
3. Follow the shipping instructions outlined in the *Service* section of this manual.

Contact information

APC Worldwide Customer Support

Customer support for this or any other APC product is available at no charge in any of the following ways: Visit the APC Web site to access documents in the APC Knowledge Base and to submit customer support requests.

- **www.apc.com** (Corporate Headquarters)
  Connect to localized APC Web sites for specific countries, each of which provides customer support information.
- **www.apc.com/support/**
  Global support searching APC Knowledge Base and using e-support.

- Contact the APC Customer Support Center by telephone (888) 272 2782, or by e-mail.
  - Local, country-specific centers: go to **www.apc.com/support/contact** for contact information.

For information on how to obtain local customer support, contact the APC representative or other distributors from whom you purchased your APC product.

Two-Year Factory Warranty

This warranty applies only to the products you purchase for your use in accordance with this manual.

Terms of warranty

APC warrants its products to be free from defects in materials and workmanship for a period of two years from the date of purchase. APC will repair or replace defective products covered by this warranty. This warranty does not apply to equipment that has been damaged by accident, negligence or misapplication or has been altered or modified in any way. Repair or replacement of a defective product or part thereof does not extend the original warranty period. Any parts furnished under this warranty may be new or factory-remanufactured.

Non-transferable warranty

This warranty extends only to the original purchaser who must have properly registered the product. The product may be registered at the APC Web site, **www.apc.com**.

Exclusions

APC shall not be liable under the warranty if its testing and examination disclose that the alleged defect in the product does not exist or was caused by end user’s or any third person’s misuse, negligence, improper installation or testing. Further, APC shall not be liable under the warranty for unauthorized attempts to repair or modify wrong or inadequate electrical voltage or connection, inappropriate on-site operation conditions, corrosive atmosphere, repair, installation, exposure to the elements, Acts of God, fire, theft, or installation contrary to APC recommendations or specifications or in any event if the APC serial number has been altered, defaced, or removed, or any other cause beyond the range of the intended use.

THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, BY OPERATION OF LAW OR OTHERWISE, OF PRODUCTS SOLD, SERVICED OR FURNISHED UNDER THIS AGREEMENT OR IN CONNECTION HEREWITH. APC DISCLAIMS ALL IMPLIED WARRANTIES OF MERCHANTABILITY, SATISFACTION AND FITNESS FOR A PARTICULAR PURPOSE. APC EXPRESS WARRANTIES WILL NOT BE ENLARGED, DIMINISHED, OR AFFECTED BY AND NO OBLIGATION OR LIABILITY WILL ARISE

OUT OF, APC RENDERING OF TECHNICAL OR OTHER ADVICE OR SERVICE IN CONNECTION WITH THE PRODUCTS. THE FOREGOING WARRANTIES AND REMEDIES ARE EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES AND REMEDIES. THE WARRANTIES SET FORTH ABOVE CONSTITUTE APC'S SOLE LIABILITY AND PURCHASER'S EXCLUSIVE REMEDY FOR ANY BREACH OF SUCH WARRANTIES. APC WARRANTIES EXTEND ONLY TO PURCHASER AND ARE NOT EXTENDED TO ANY THIRD PARTIES.

IN NO EVENT SHALL APC, ITS OFFICERS, DIRECTORS, AFFILIATES OR EMPLOYEES BE LIABLE FOR ANY FORM OF INDIRECT, SPECIAL, CONSEQUENTIAL OR PUNITIVE DAMAGES, ARISING OUT OF THE USE, SERVICE OR INSTALLATION, OF THE PRODUCTS, WHETHER SUCH DAMAGES ARISE IN CONTRACT OR TORT, IRRESPECTIVE OF FAULT, NEGLIGENCE OR STRICT LIABILITY OR WHETHER APC HAS BEEN ADVISED IN ADVANCE OF THE POSSIBILITY OF SUCH DAMAGES. SPECIFICALLY, APC IS NOT LIABLE FOR ANY COSTS, SUCH AS LOST PROFITS OR REVENUE, LOSS OF EQUIPMENT, LOSS OF USE OF EQUIPMENT, LOSS OF SOFTWARE, LOSS OF DATA, COSTS OF SUBSTITUENTS, CLAIMS BY THIRD PARTIES, OR OTHERWISE.

NO SALESMAN, EMPLOYEE OR AGENT OF APC IS AUTHORIZED TO ADD TO OR VARY THE TERMS OF THIS WARRANTY. WARRANTY TERMS MAY BE MODIFIED, IF AT ALL, ONLY IN WRITING SIGNED BY AN APC OFFICER AND LEGAL DEPARTMENT.

Warranty claims

Customers with warranty claims issues may access the APC customer support network through the Support page of the APC Web site, **www.apc.com/support**. Select your country from the country selection pull-down menu at the top of the Web page. Select the Support tab to obtain contact information for customer support in your region.

© 2010 APC by Schneider Electric. APC, the APC logo, and Smart-UPS are owned by Schneider Electric Industries S.A.S., American Power Conversion Corporation, or their affiliated companies. All other trademarks are property of their respective owners.