

3-16kVA Service Bypass Panels

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990-1530

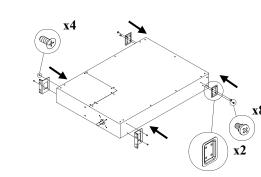
Note: Read the safety information sheet before installation.

Illustrations in this document may differ slightly from the actual hardware.

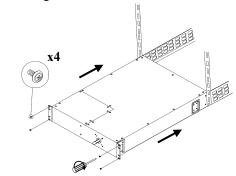
Attention: This product is for use in a controlled environment. Refer to product specifications for environmental limits.

RACK MOUNTING

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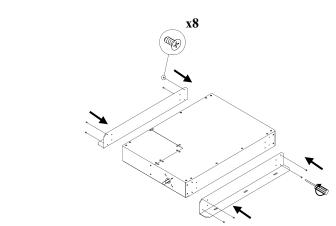


2 Set SBP in the rack. If hardwiring is required, see *Connecting Power* section before screwing into the rack.

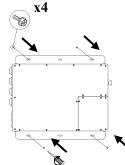


WALL MOUNTING

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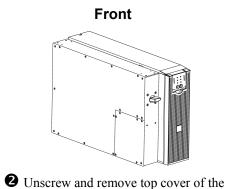


Whenever possible, attach one top screw and one bottom screw into a wall stud. If stud mounting is not possible, use an expandable wall anchor. Screws are not included; .25" x 2" lag bolts are recommended.



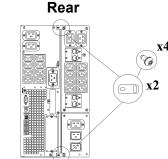
TOWER OPTION (FOR SMART-UPS RT SETUPS ONLY)

• Remove screw from the top and bottom rear of both the UPS and SBP. Install tie brackets and reattach screws.

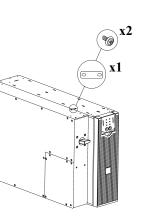


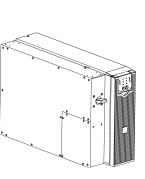
• Reattach top cover of the UPS.

UPS.



3 Attach bracket to top of UPS and SBP.





Note: The SBP5000RMI2U, when used in conjunction with an SURT3000XLI or SURT5000XLI UPS in a tower configuration without an external battery pack (SURT192XLBP), is suitable for mounting on concrete or other non-combustible smooth surfaces only.

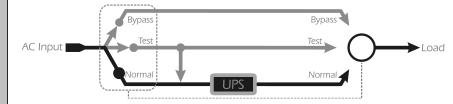
USER CONFIGURABLE

rotating the SBP switch.

1. Normal: Power is directed from the utility outlet, through the Bypass Panel and UPS, and to connected equipment. For use during normal UPS operation.

2. Test: Power supplied to the UPS is not output. Use when tests are being conducted on the UPS, and connected equipment is not yet desired.

3. Bypass: Power from the utility outlet is filtered through the Bypass Panel, and to the connected equipment. Use to bypass the UPS, when functioning improperly.



Note: While operating in 'Test' or 'Bypass' mode, power to the connected equipment is not conditioned by the UPS. At this time, the "Equipment Protection Policy" is not valid.

IDENTIFYING THE PANEL

Service Bypass Panels will differ. Refer to chart for unit specifications.

Note: HW= Hardwire

Service	
Bypass	
Panel	
	•

SBP3000RM2U

SBP5000RMT2L

SBP5000RMI2U

SBP6KRMT2U*

SBP6KRMI2U

SBP3000

SBP10KRMT4U

SBP10KRMI4U

SBP16KP

SBP16KRMI4U

SBP16KRMP4U

Attention: When using an online UPS, put the UPS in automatic bypass mode before

	Corresponding UPS Systems	Bypass Input	UPS Input	UPS Output	PDU Panel
I	100-120V Smart-UPS 3kVA	L5-30P	L5-30R	L5-30P	(2) 5-20R (6) 5-15R
U	200/208/240V Smart-UPS 3-4.5kVA	L6-30P	L6-30R	L6-30P	(2) L6-20R (2) L6-30R
*ر	230V Smart-UPS 3-5kVA	C20/HW	C19/HW	C20/HW	(2) C19 (8) C13
**	200/208/240V Symmetra 2-6kVA	L6-30P/ HW	L6-30R/ HW	L6-30P/ HW	(1) L6-20 (2) L6-30
	230V Symmetra 2-6kVA	нพ	нพ	нw	(4) C19
	100-240V Smart-UPS 3-5kVA with 30A HW input/output available	нw	нw	нw	HW
ſ	200/208/240V Smart-UPS RT 7.5-10kVA	нพ	нพ	нw	(3) L6-20 (3) L6-30
	230V Smart-UPS RT 7.5-10kVA	HW (3Ph or 1Ph)	HW (3Ph or 1Ph)	нw	(8) C13 (2) C19
	200-240V Symmetra RT 4-16kVA	HW (3Ph or 1Ph)	HW (3Ph or 1Ph)	нw	HW
	220-240V Symmetra RT 4-16kVA	HW (3Ph or 1Ph)	HW (3Ph or 1Ph)	нพ	(3) 30A HW
J	200/208/240 Symmetra RT 4-16kVA	нพ	нพ	нw	(6) L14-30

*For loads exceeding 3kVA, hardwiring is necessary.

**For loads exceeding 5kVA, hardwiring is necessary.

CONNECTING POWER

Warning: Do not modify inlets or outlets. The SBP and UPS plugs and receptacles should match. For more information, contact APC.

1. Non-Hardwired Panels

- 1. Plug SBP UPS output cord into UPS PDU panel.*
- 2. Plug UPS input cord to SBP UPS input receptacle.*
- 3. Plug customer equipment into SBP PDU panel.
- 4. Plug SBP into utility power outlet.

*Units with IEC receptacles: Use jumper cables.

2. Hardwired Panels

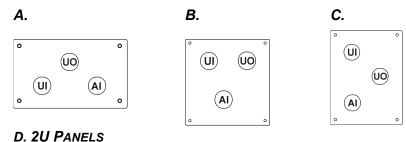
Attention: Wiring must be performed by a qualified electrician.

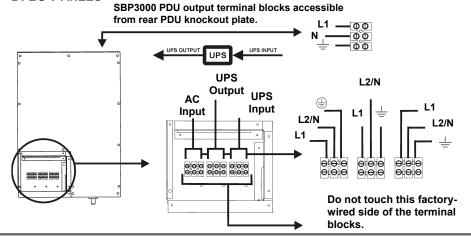
- 1. Switch input circuit breaker off.
- 2. SBP units that will be rack-mounted: Set SBP in the rack.
- 3. Unscrew and remove top access panel.
- 4. If using SBP5000RMI2U or SBP6KRMT2U with a hardwired UPS: Unscrew existing terminal block wiring. Do not touch factory wiring (see **D**).
- 5. If using SBP5000RMI2U or SBP6KRMT2U with a hardwired UPS: Unscrew and remove rear input/output panel.
- Remove circular knockouts from hardwiring input/output panel (see **A**, **B**, **C**: UO= UPS Output; UI= UPS Input; AI= AC Input).

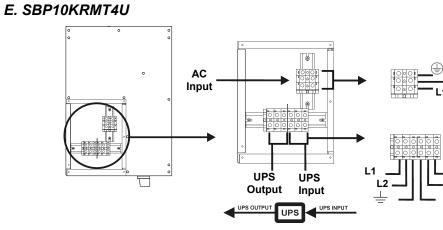
SBP3000 units: Also, remove PDU output panel knockout plate.

SBP16KP units: Also, remove circular knockouts from PDU output panel.

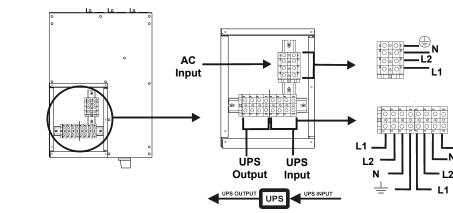
- 7. Connect wires to terminal blocks (see **D**, **E**, **F**, **G**, **H**). Adhere to all national and local electrical codes.
- Reinstall access panel.
- Install hardwiring input/output panel. 9.
- 10. SBP units that will be rack-mounted: Screw SBP into the rack.

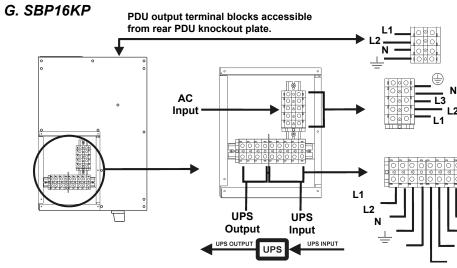




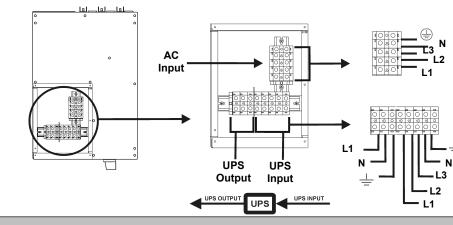


F. SBP16KRMP4U





H. SBP10KRMI4U, SBP16KRMI4U



TROUBLESHOOTING

Use the chart below to solve minor SBP installation problems. Also, refer to the UPS User Manual Troubleshooting section. For more complex issues, refer to www.apc.com.

Problem Possible

UPS WILL NOT TURN O SBP handle is in 'By

There is no power at

UPS is faulty or dam

There is no power at power outlet

UPS IS ONLINE; NOT P

SBP output circuit br

There is no power at

2003

We, the undersign conforms to the fo Standards to Wh

Application of Co

Type of Equipm Model Numbers

Manufacturer's I

Importer's Nam

L2

Place



n and Cause	Solution				
ON AFTER ON BUTTON IS PUSHED					
pass' position.	Rotate the SBP handle to the 'Normal' position.				
t UPS input.	Check that the power cables from the SBP to the utility power, and from the SBP to the UPS Input are securely connected.				
naged.	Rotate the SBP handle into the 'Test' position. If the connected equipment becomes energized, the UPS may be faulty. To confirm this, refer to UPS User Manual <i>Troubleshooting</i> .				
t the utility	e utility e utility e utility e utility equipment fails to become energized, the utility power outlet may be faulty. Check the utility power supply by plugging a table lamp into the suspect outlet. If the utility outlet fails to power the lamp, contact qualified service personnel to restore power.				
POWERING ALL CONNECTED EQUIPMENT					
reaker tripped.	Reduce the load by unplugging equipment. Reset the breaker.				
t SBP output.	tput. Check that the power cable from the SBP to the UPS output is securely connected.				

REGULATORY INFORMATION

CE Declaration of Conformity

ned, declare under our sole responsib following standards and directives:	ility that the equipment specified below
nich Conformity Declared:	EN 50091-1, EN 55022, EN 50082-1, EN 60950, IEC 950
ouncil Directives: ent: :	73/23/EEC, 89/336/EEC, 91/157/EEC, 92/31/EEC, 93/68/EEC Uninterruptible Power Supply SBP5000RMI2U, SBP6KRMI2U, SBP10KRMI4U, SBP16KP, SBP16KRMI4U
Name and Address:	American Power Conversion 132 Fairgrounds Road West Kingston, Rhode Island, 02892, USA -or- American Power Conversion (A. P. C.) b. v.
	Ballybritt Business Park Galway, Ireland -or- American Power Conversion Lot 10, Blk 16 PEZA Rosario, Cavite Philippines
	-or- American Power Conversion 2nd Street PEZA Cavite Economic Zone Rosario, Cavite Philippines -or- American Power Conversion Lot 3, Blk 14 PEZA Rosario, Cavite Philippines
	-or- -or- APC (Suzhou) UPS Co., Ltd 339 Suhong Zhong Lu Suzhou Industrial Park Suzhou Jiangsu 215021 P R China
e and Address:	American Power Conversion (A. P. C.) b. v. Ballybritt Business Park Galway, Ireland
N. Billerica, MA U.S.A.	Richard J. Everett, 18 Apr 03 Sr. Regulatory Compliance Engineer
Galway, Ireland	Ray S. Ballard, 18 Apr 03 Managing Director, Europe