

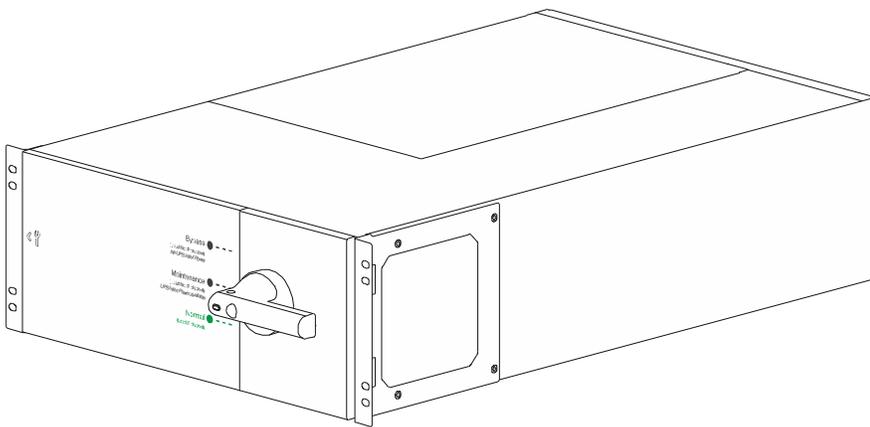
APC™ Smart-UPS™ Modular Ultra Service Bypass Unit

SRYLSBP20KP

User Manual

EN 990-91499

07/2022



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Important Safety Instructions

SAVE THESE INSTRUCTIONS - This manual contains important instructions that should be followed during installation and maintenance of the APC™ Smart-UPS™ Modular Ultra series of equipment and batteries.



Read the user documentation to become familiar with the equipment before trying to install or operate it.

Read the Safety Guide supplied with the Service Bypass Unit (SBU) before installing the SBU.

The following special messages may appear throughout this document or on the equipment to warn of potential hazards or to call attention to information that clarifies or simplifies a procedure.



The addition of this symbol either to a “Danger” or “Warning” safety label indicates that an electrical hazard exists that will result in personal injury if the instructions are not followed.



This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

DANGER

DANGER indicates a hazardous situation which, if not avoided, **will result in** death or serious injury.

WARNING

WARNING indicates a hazardous situation which, if not avoided, **could result in** death or serious injury.

CAUTION

CAUTION indicates a hazardous situation which, if not avoided, **could result in** minor or moderate injury.

NOTICE

NOTICE is used to address practices not related to physical injury.

Product Handling Guidelines

Inspect the package contents upon receipt.

Notify the carrier and dealer if there is any damage.

					
<18 kg <40 lb	18-32 kg 40-70 lb	32-55 kg 70-120 lb	>55 kg >120 lb		

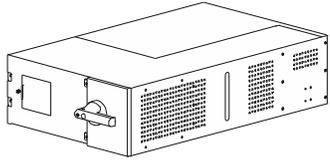
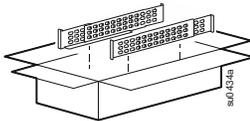
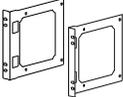
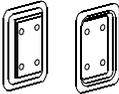
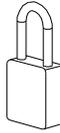
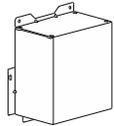
Overview

The APC Smart-UPS Modular Ultra Service Bypass Unit (SBU), helps to provide utility power to connected equipment during UPS maintenance.

The SBU must be used along with an UPS and should not be used as a stand-alone.

Inventory

Inspect the SBU upon receipt. Notify the carrier and dealer if there is damage. The package is recyclable; save it for reuse or dispose of it properly.

SBU 		Rail Kit 		Front Bezel 	
Rack-mount brackets (1 pair) 	Cleats (1 pair) 	Signal Cable 	Padlock 	SBU wiring cover 	
Pan head Screw (10x) 	Flat Screws (8x) 	Ornamental Screws (4x) 	Cage Nut (2x) 	Ring type lugs (4x) 	
Flanged Nut (4x) 					

Specifications

Electrical Specifications

Model	SRYLSBP20KP		
Nominal input voltage	200 - 240 VAC (2P + N + PE)	220 - 240 VAC (1P + N + PE)	380 - 415 VAC (3P + N + PE)
Nominal operating frequency	50/60 Hz		
Rated output voltage	200/208/240 VAC (2P + N + PE)	220/230/240 VAC (1P + N + PE)	
Maximum input current	125 A each phase		
Rated output power	25/26/30 kVA 25/26/30 kW	27.50/28.50/30.00 kVA 27.50/28.50/30.00 kW	

NOTE:

- The table above represents the electrical ratings of the SBU and not those of the UPS.
- The input circuit breaker should not exceed the rating recommended for the UPS connected to the SBU.
- The terminals in the SBU accept wires sizes from 25 mm² (2 AWG) to 35 mm² (1 AWG) copper wires.
- Wire size is dependent on the rating of the connected UPS. Refer to the UPS user manual for UPS wiring specifications. Be sure to use next thicker gauge wire than that recommended in the UPS user manual.
- SBU rating must be greater than or equal to the rating of UPS to which it is connected.
- The connected load must not exceed the electrical rating of the UPS. For example, if a 30 kVA SBU is used with a 20 kVA UPS, the maximum load that will be supported is 20 kVA.
- Use appropriate strain relief (not supplied) for the AC Input and AC Output wires.

Environmental Specifications

Temperature	Operating	0 to 40 °C (32 to 104 °F)
	Storage	-30 to +70 °C (-22 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	
International Protection Code	IP20	
<p>This unit is intended for indoor use only.</p> <p>Do not operate the SBU where there is excessive dust or temperature or humidity are outside specified limits.</p> <p>Be sure the air vents on the SBU are not blocked. Allow adequate space for proper ventilation.</p>		

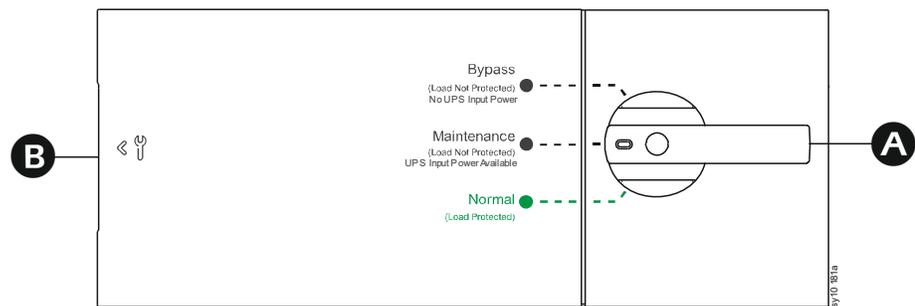
Physical Specifications

The SBU is heavy. Follow all lifting guidelines.

Dimensions with package Height x Width x Depth	310 x 575 x 978 mm (12.20 x 22.64 x 38.50 in)
Dimensions without package Height x Width x Depth	175 x 432 x 755 mm (6.89 x 17.00 x 29.72 in)
Weight with package (approx.)	32.50 kgs (71.66 lb)
Weight without package (approx.)	23 kgs (50.71 lb)

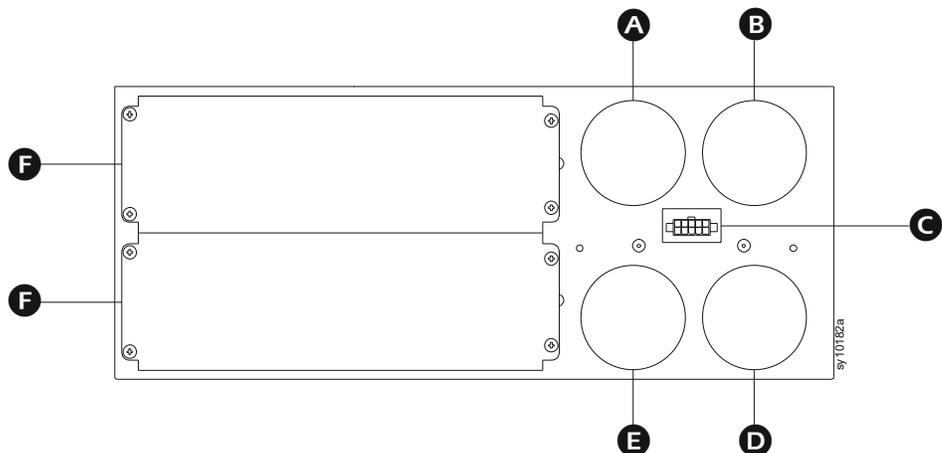
Changes and modifications to this unit not expressly approved by APC could void the warranty.

Front panel



A	BYPASS SWITCH knob
B	Bezel

Rear panel features



A	Hardwire access (knockout) for AC output (load)
B	Hardwire access (knockout) for AC input (mains)
C	Communication port
D	Hardwire access (knockout) for UPS input
E	Hardwire access (knockout) for UPS output
F	Provision for installing additional Power Distribution Unit (PDU)

Rack-mounting

⚠ CAUTION

RISK OF FALLING EQUIPMENT

- The equipment is heavy. Always practice safe lifting techniques adequate for the weight of the equipment.
- Always use the recommended number of screws to secure brackets to the SBU.
- Always use the recommended number of screws and cage nuts to secure the SBU to the rack.
- Always install the SBU above the UPS in the rack.

Failure to follow these instructions can result in equipment damage and minor or moderate injury.

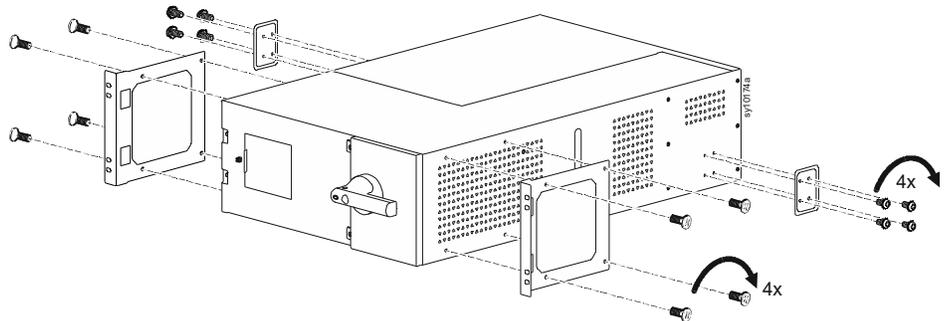
1 Install the rails on the rack. For details, refer to the instructions supplied in the rail kit.

2 Install the UPS on the rack. For details, refer to the UPS user manual.

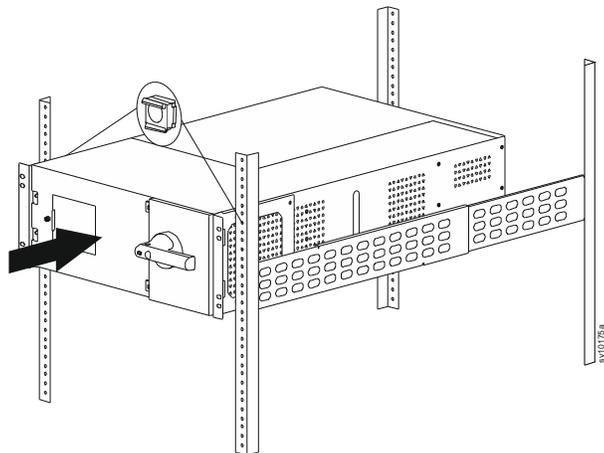
3 Hardwire the input and output terminals of the UPS. For details, refer to the UPS user manual.

4 Secure the brackets to the unit using eight flat head screws (supplied).

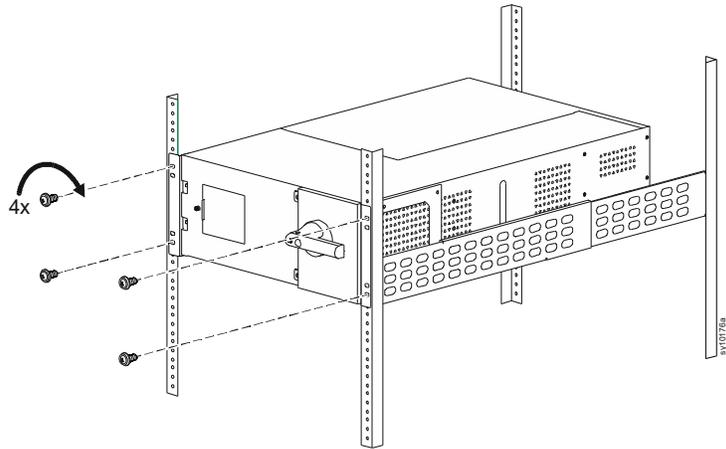
Secure the cleats to the unit using eight pan head screws (supplied).



5 Install the cage nuts (supplied) on the rack and install the SBU in the rack.

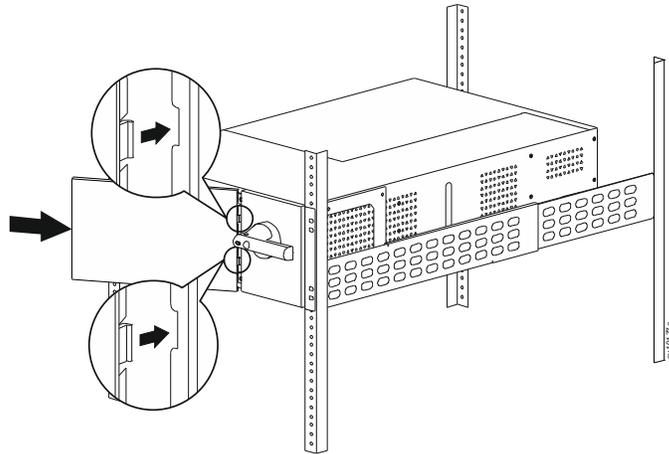


6 Secure the SBU to the rack using the four (4) ornamental screws (supplied).

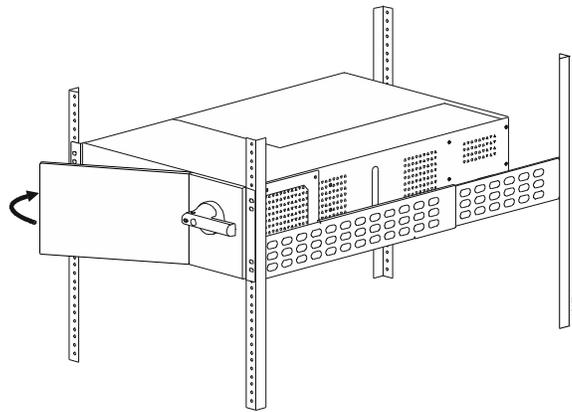


7 Install the front bezel.

NOTE: Be sure to align the locating tabs on the bezel with the recess.

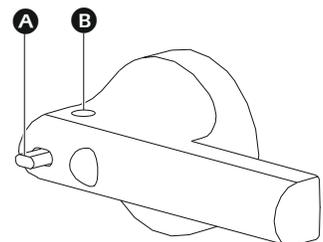


8 Close the front bezel.



Lock Out Tag Out (LOTO)

1. Press the locking lever **A** on the switch knob.
2. Insert the shackle of the supplied padlock into the locking hole **B**. If the shackle does not enter the locking hole, then press the locking lever further into the knob.
3. Install the padlock.



Voltage Measurement

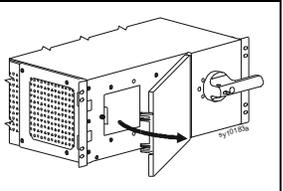
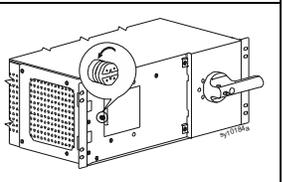
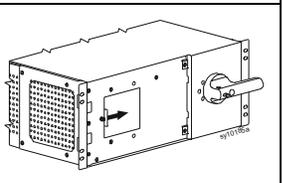
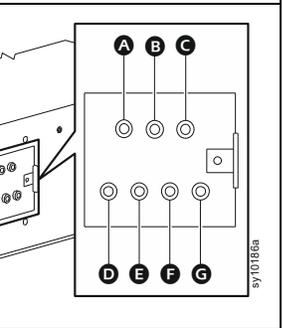
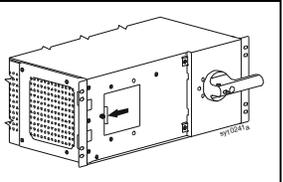
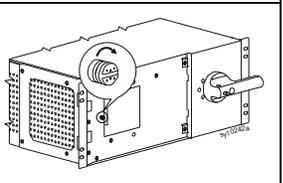
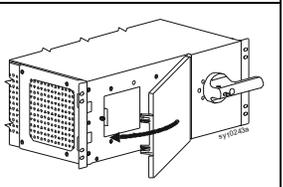
⚠ WARNING

RISK OF ELECTRIC SHOCK

- Measurement of AC input and output voltages on live terminals must be done by a qualified electrician or a service personnel.
- Do not touch the live terminals or probe tips during voltage measurement.

Failure to follow these instructions could result in death or serious injury.

The input and output voltages can be measured by accessing the voltage measurement terminals located behind the front bezel.

1	Open the front bezel.															
2	Locate the captive screw securing the sliding cover and unfasten it using a Torx® T10 driver to unlock the sliding cover.															
3	Slide open the cover to access the terminals.															
4	<table border="1" data-bbox="537 1108 764 1388"> <tbody> <tr><td>A</td><td>AC output L1</td></tr> <tr><td>B</td><td>AC output L2</td></tr> <tr><td>C</td><td>AC output N</td></tr> <tr><td>D</td><td>AC Input L1</td></tr> <tr><td>E</td><td>AC Input L2</td></tr> <tr><td>F</td><td>AC Input L3</td></tr> <tr><td>G</td><td>AC Input N</td></tr> </tbody> </table>	A	AC output L1	B	AC output L2	C	AC output N	D	AC Input L1	E	AC Input L2	F	AC Input L3	G	AC Input N	
A	AC output L1															
B	AC output L2															
C	AC output N															
D	AC Input L1															
E	AC Input L2															
F	AC Input L3															
G	AC Input N															
5	Close the sliding cover.															
6	Secure the sliding cover by tightening the captive screw using a Torx® T10 driver.															
7	Install the front bezel.															

Hardwiring

⚠ DANGER

RISK OF ELECTRIC SHOCK

- Before installing or performing any hardwire operations be sure that the utility power is switched off.
- Apply Lock-out Tag-out (LOTO) procedure.

Failure to follow these instructions can result in death or serious injury.

⚠ CAUTION

RISK OF ELECTRIC SHOCK

- Hardwiring must be performed by a qualified electrician or service personnel.
- Adhere to all national and local electrical codes.
- Switch off the UPS power output before installing the SBU.
- Switch off the internal battery modules in the UPS before installing the SBU.
- Disconnect the external battery packs, if connected.
- Use Snap-In strain reliefs.

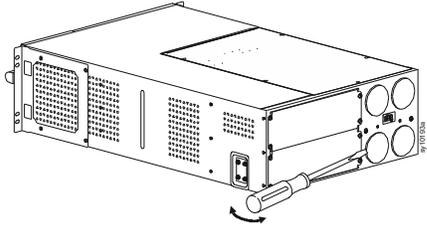
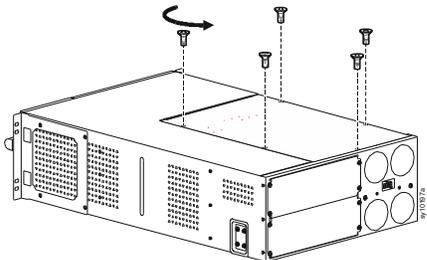
Failure to follow these instructions can result in equipment damage and minor or moderate injury.

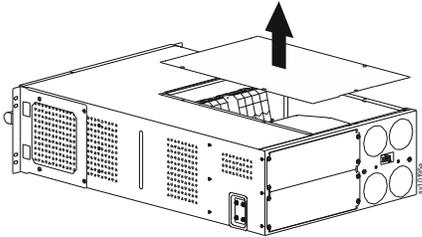
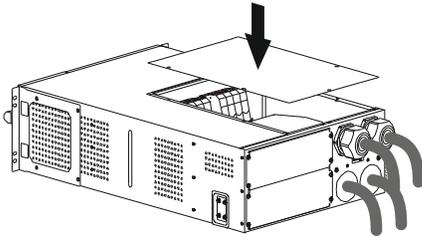
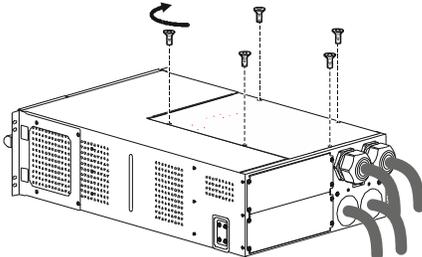
1. Hardwire the UPS. Refer to the UPS user manual for details.
2. Hardwire the SBU. Refer “Hardwire the SBU” on page 10 for details.
3. Install the wiring cover.
 - For SRYL5K15/SRYL10K15/SRYL15K15 series models, refer “SRYL5K15/SRYL10K15/SRYL15K15 series” on page 12 for details.
 - For SRYL5K20/SRYL10K20/SRYL15K20/SRYL20K20 series models, refer “SRYL5K20/SRYL10K20/SRYL15K20/SRYL20K20 series” on page 12 for details.

Hardwire the SBU

NOTE: Be sure that the UPS is installed in the rack and hardwired before commencing the hardwiring of the SBU.

Only SBU shown in the illustrations for clarity.

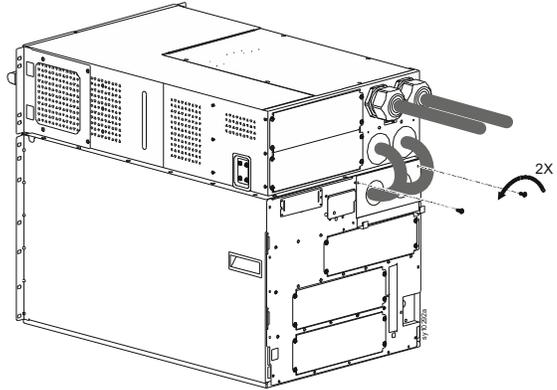
<p>1 Remove all the 4 knockouts.</p>	
<p>2 Locate the 5 screws securing the terminal block access cover to the chassis and unfasten them.</p>	

<p>③</p>	<p>Remove the terminal block access cover.</p>	
<p>④</p>	<p>Install appropriate strain relief (not supplied) on the hardwire access (knockouts) for AC input power and AC output power. Refer “Rear panel features” on page 6 for details of the hardwire access.</p>	
<p>⑤</p>	<p>Insert the wires through the strain relief and respective hardwire access (knockouts). Refer “Rear panel features” on page 6 for details of the hardwire access.</p>	
<p>⑥</p>	<p>Strip the insulation to a length of $s=24$ mm for phase and neutral wires and $s= 18$ mm for ground wires.</p>	
<p>⑦</p>	<p>Crimp ring type lugs (supplied) to the ground wires and ferrules (KST E50-25 or equivalent UL-Listed) to the phase and neutral wires.</p> <p>NOTES:</p> <ul style="list-style-type: none"> • Be sure that the lugs and ferrules are appropriate to the wire size. • Be sure to use KST THX-185-HEAD(U) / (H) crimping tool for crimping the ring type lugs. • Be sure to use a crimping tool recommended by the ferrule manufacturer for crimping the ferrules. 	
<p>⑧</p>	<p>Secure the ground wires to the respective ground terminal clinched to the chassis, using 4x Flanged Nuts (supplied). Refer to “Terminal Block Layout” on page 14 for details. NOTE: Minimum tightening torque - 9.0 N m.</p>	
<p>⑨</p>	<p>Secure the phase and neutral wires to the terminal block using a M5 Allen Key. Refer to “Terminal Block Layout” on page 14 for terminal block details. NOTE: Tightening torque: Min: 6 N m; Max: 8 N m</p>	
<p>⑩</p>	<p>Install the terminal block access cover removed in <i>step ③</i>.</p>	
<p>⑪</p>	<p>Secure the terminal block access cover using the screws removed in <i>step ②</i>.</p>	

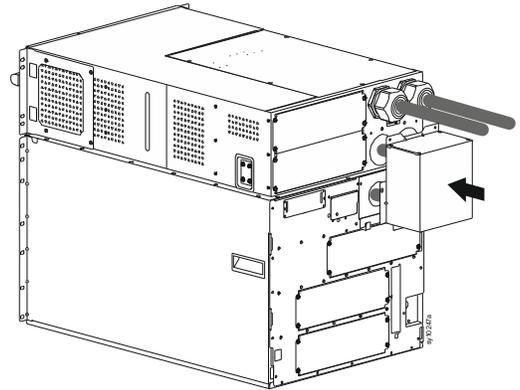
Install the wiring cover

SRYL5K15/SRYL10K15/SRYL15K15 series

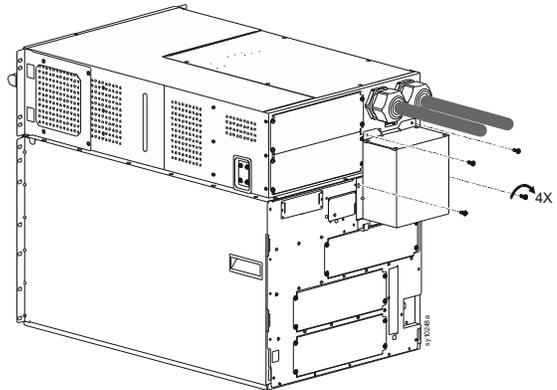
- 1 Locate the 2 screws securing the Input/Output wiring tray to the UPS frame and unfasten them.



- 2 Install the SBU wiring cover (supplied).

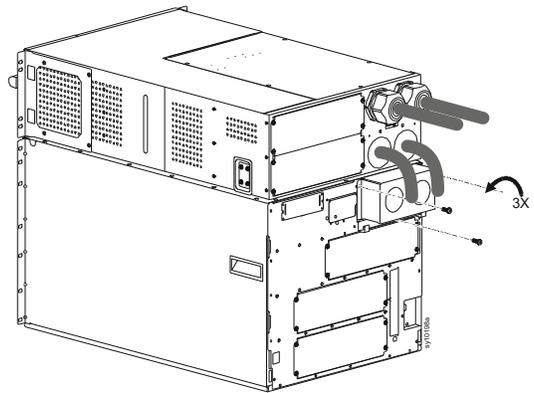


- 3 Secure the SBU wiring cover to the UPS and the SBU using 4 screws (including the 2 screws unfastened in step 1 earlier).

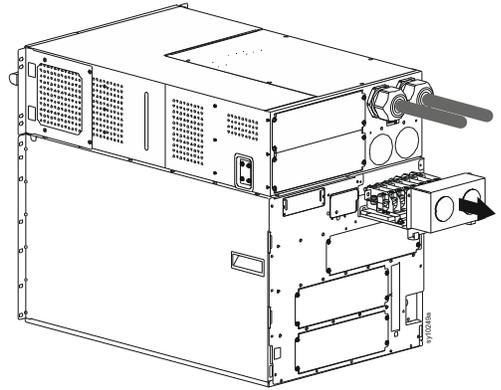


SRYL5K20/SRYL10K20/SRYL15K20/SRYL20K20 series

- 1 Locate the screws securing the Input/Output wiring tray to the UPS frame and unfasten them.

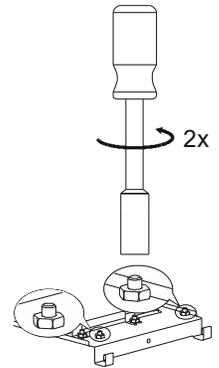


- 2 Pull out the Input/Output wiring tray assembly from the UPS.

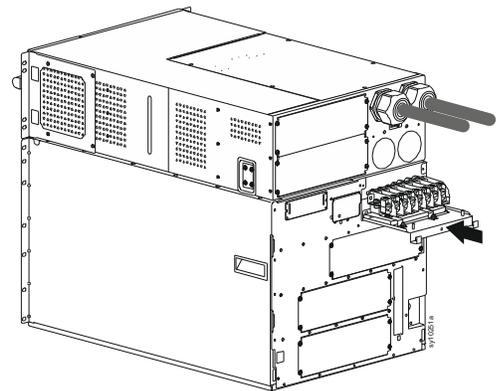


- 3 Locate the 2 nuts securing the wiring cover to the Input/Output wiring tray and dis-assemble the wiring cover from the Input/Output wiring tray.

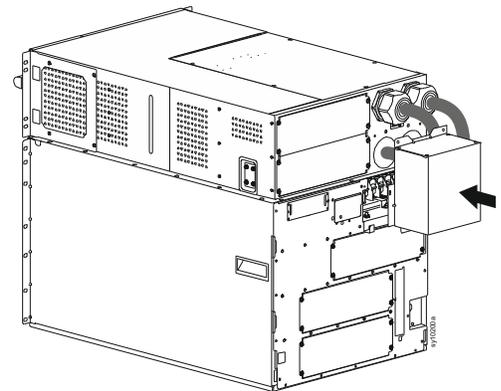
NOTE: Use a nut driver or a suitable tool for unfastening the nuts.



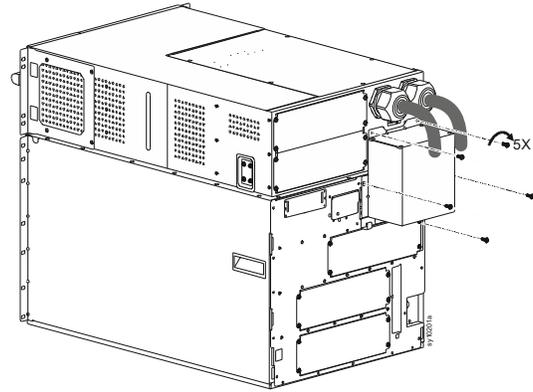
- 4 Install the Input/Output wiring tray.



- 5 Install the SBU wiring cover (supplied with the SBU).



- 6 Secure the SBU wiring cover to the UPS and the SBU.
- NOTE:** Use the 3 screws unfastened in step 1 earlier and balance 2 screws supplied.

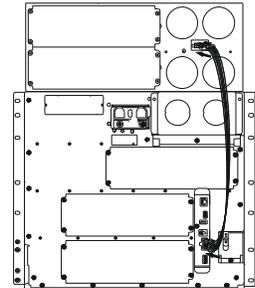


Connect the Signal Cable

CAUTION: Connection of signal cable to be performed by a qualified electrician or a service personnel.

Connect one end of the signal cable to the signal port on the SBU and the other end to the signal port on the UPS.

NOTE: Signal port on SBU should only be connected to the Signal port on the UPS.



Terminal Block Layout

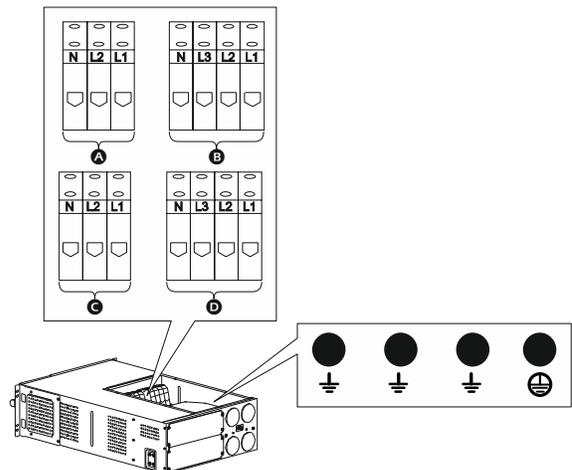
⚠ CAUTION

RISK OF FIRE

Connect AC Input (Mains) terminals only to a branch circuit provided with 125 A maximum overcurrent protection (100% capacity of the SBU) in accordance with the National Electric Code, NSI/NFPA70.

Failure to follow these instructions can result in equipment damage and minor or moderate injury.

A	AC Output (load)
B	AC Input (Mains)
C	UPS Output
D	UPS Input



Power Distribution Unit (PDU) Installation

For installation of PDU (Optional), refer to the installation manual supplied with PDU.

Operation

The SBU operates in 3 modes.

Normal Mode:

In this mode, the UPS helps protect the connected load from power outages and disturbances.

Use this mode for normal operation.

Maintenance Mode:

In this mode, the utility power is directly supplied to the connected load. The connected load is not protected from power outage and disturbances. Utility power is also supplied to the UPS.

Use this mode only for troubleshooting/testing the UPS.

Bypass Mode:

In this mode, the utility power is directly supplied to the connected load. The UPS does not receive any input power. Shut down the UPS when the SBU is switched to Bypass Mode. Refer to the UPS user manual for details.

Use this mode for UPS maintenance.

Operating the SBU in Maintenance Mode

1. Set the UPS to *Bypass mode*. Refer to the UPS user manual for details..
2. Remove the padlock from LOTO feature in the SBU.
3. Rotate the BYPASS SWITCH knob to **Maintenance** position.
4. Apply the padlock on the LOTO feature in the SBU.

Operating the SBU in Bypass Mode

1. Set the UPS to *Bypass mode*. Refer to the UPS user manual for details.
2. Remove the padlock from LOTO feature in the SBU, if applicable.
3. Rotate the BYPASS SWITCH knob to **Maintenance** position and then to **Bypass** position.
4. Apply the padlock on the LOTO feature on the SBU.
5. Turn off the UPS. Refer to the UPS user manual for details.

Restoring the SBU to operate in Normal Mode from Maintenance Mode

1. Be sure that the UPS is in *Bypass mode*.
2. Remove the padlock from the LOTO feature on the SBU.
3. Rotate the BYPASS SWITCH knob to **Normal** Position.
4. Set the UPS to *Normal/Online mode*. Refer to the UPS user manual for details.
5. Apply the padlock on the LOTO feature on the SBU.

Restoring the SBU to operate in Normal Mode from Bypass Mode

1. Remove the padlock from the LOTO feature on the SBU.
2. Rotate the BYPASS SWITCH knob to **Maintenance** Position.
3. Turn on the UPS. Refer to the UPS user manual for details.
4. Set the UPS to *Bypass mode*. Refer to the UPS user manual for details.
5. Rotate the BYPASS SWITCH knob to **Normal** Position.
6. Set the UPS to *Normal/Online mode*. Refer to the UPS user manual for details.
7. Apply the padlock on the LOTO feature on the SBU.

Troubleshooting

Use the table to solve minor installation and operation problems.
 Refer to our website, www.apc.com for assistance with complex problems.

Problem and/or Possible Cause	Solution
UPS will not turn on	
SBU is in Bypass mode.	Set the SBU switch to Maintenance Mode.
There is no power at the UPS input.	Be sure that the power cables from the SBU to the utility power, and from the SBU to the UPS input are securely connected.
UPS is not working.	Refer to the UPS user manual for troubleshooting.
Utility power is not available.	Set the SBU switch to Maintenance . If the connected equipment does not receive power, the utility power is not available. Contact a qualified electrician to check the building electrical power.
UPS is in Online mode but connected equipment not receiving power	
There is no SBU output power.	Be sure that the power cable from the UPS output to the SBU are securely connected.
UPS does not detect the presence of SBU.	Be sure that the signal cable is securely connected between the UPS and the SBU.

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 Customer Support through our 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 rear panel of the unit and are available through the LCD display on select models.
 - b. Call 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 our 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.
4. Pack the unit properly to avoid damage in transit. Never use foam beads for packaging. Damage sustained in transit is not covered under warranty.
5. Write the RMA# provided by Customer Support on the outside of the package.
6. Return the unit by insured, prepaid carrier to the address provided by Customer Support.

Transport the unit

1. Shut down and disconnect all connected equipment.
2. Turn off the UPS and remove the connections to the SBU.
3. Disconnect the unit from utility power.
4. Follow the shipping instructions outlined in the *Service* section of this manual.

Limited Factory Warranty

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

Terms of warranty

Schneider Electric warrants its products to be free from defects in materials and workmanship for a period of five (5) years from the date of purchase.

Schneider Electric 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 our website, www.apc.com.

Exclusions

Schneider Electric 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, Schneider Electric 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 Schneider Electric recommendations or specifications or in any event if the Schneider Electric serial number has been altered, defaced, or removed, or any other cause beyond the range of the intended use.

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NO SALESMAN, EMPLOYEE OR AGENT OF SCHNEIDER ELECTRIC 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 customer support network through the Support page on our 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.

Contact information

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

- www.apc.com (Corporate Headquarters)
Connect to localized web sites for specific countries, each of which provides customer support information.
- www.apc.com/support/
Global support searching the Knowledge Base and using e-support.
- Contact the 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 Schneider Electric representative or the distributor from whom you purchased your APC product.

Schneider Electric

35 rue Joseph Monier
92500 Rueil Malmaison - France
Phone: +33 (0) 1 41 29 70 00
www.apc.com

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