

Installation SecureUPS Battery Cables and Battery Harness

SAVE THESE INSTRUCTIONS - This manual contains important instructions that should be followed during installation and maintenance of the SecureUPS and batteries.

Read these instructions carefully and look at the equipment to become familiar with the device before trying to install, operate, service or maintain it. The following special messages may appear throughout this bulletin 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 which 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



Safety and General Information

**Inspect the package contents upon receipt.
Notify the carrier and dealer if there is any damage.**

- Adhere to all national and local electrical codes.
- All wiring must be performed by a qualified electrician.
- **Changes and modifications to this unit not expressly approved by APC by Schneider Electric could void the warranty.**

Battery safety

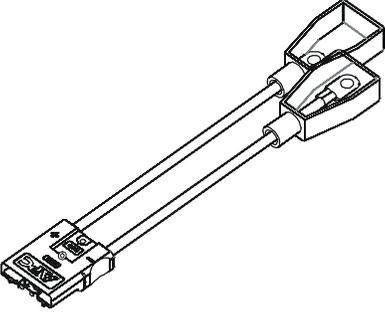
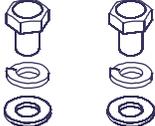
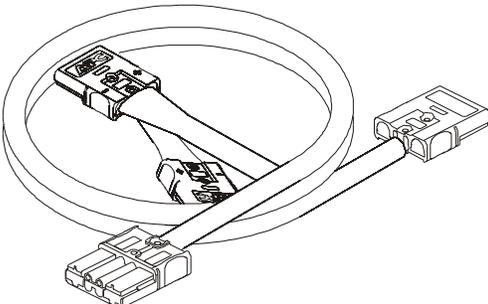
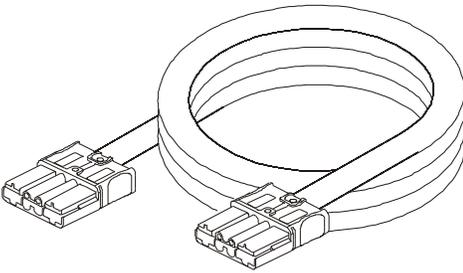
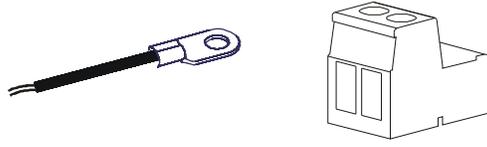
- The SecureUPS utilizes external batteries.
- The batteries typically last for two to five years. Environmental factors impact battery life. Elevated ambient temperatures, poor quality utility power, and frequent short duration discharges will shorten battery life. The battery should be replaced before end of life.
- APC by Schneider Electric recommends VRLA batteries. Under normal use and handling, there is no contact with the internal components of the battery. Over charging, over heating or other misuse of batteries can result in a discharge of battery electrolyte. Released electrolyte is toxic and may be harmful to the skin and eyes.
- Replace the batteries immediately when the SecureUPS indicates battery replacement is necessary.
- Before installing or replacing the batteries, remove jewelry such as wristwatches and rings.
High short circuit current through conductive materials could cause severe burns.
- Do not dispose of batteries by burning them. The batteries may explode.

General information

- **Always recycle used batteries.**
- Recycle the package materials or save them for reuse.

Package Contents

Inspect the contents upon receipt. Notify the carrier and dealer if the unit is damaged.

<p>4 Battery cables</p> 	<p>Battery cable hardware</p> 
<p>1 Battery harness to SecureUPS cable with 4 battery connectors and 1 extension cable connector</p> 	<p>1 Battery harness to SecureUPS extension cable</p> 
<p>Temperature sensor cable and terminal block</p> 	<p>2 Cable ties</p> 

Installation

Install the SecureUPS. Refer to the installation instructions in the SecureUPS user manual.

⚠ CAUTION

RISK OF ELECTRIC SHOCK

- The equipment is heavy. Practice correct lifting techniques adequate for the weight of the equipment.
- When installing batteries in rack-mount or stack configuration, install batteries at the bottom of the rack with the SecureUPS above the batteries.
- Disconnect the cabinet circuit breaker before installing or servicing the SecureUPS or connected equipment.
- Disconnect equipment from the SecureUPS before servicing any equipment.
- Disconnect external batteries before installing or servicing the SecureUPS or connected equipment.
- The SecureUPS utilizes external batteries that may present a shock hazard even when disconnected from the AC power.
- The AC output connectors may be energized by remote or automatic control at any time as the output voltage is same as the input voltage.

Failure to follow these instructions could result in minor or moderate injury.

Note: The SecureUPS batteries will charge to 90% capacity in the first 12 hours of normal operation. **Do not expect full battery runtime capability during this initial charge period.**

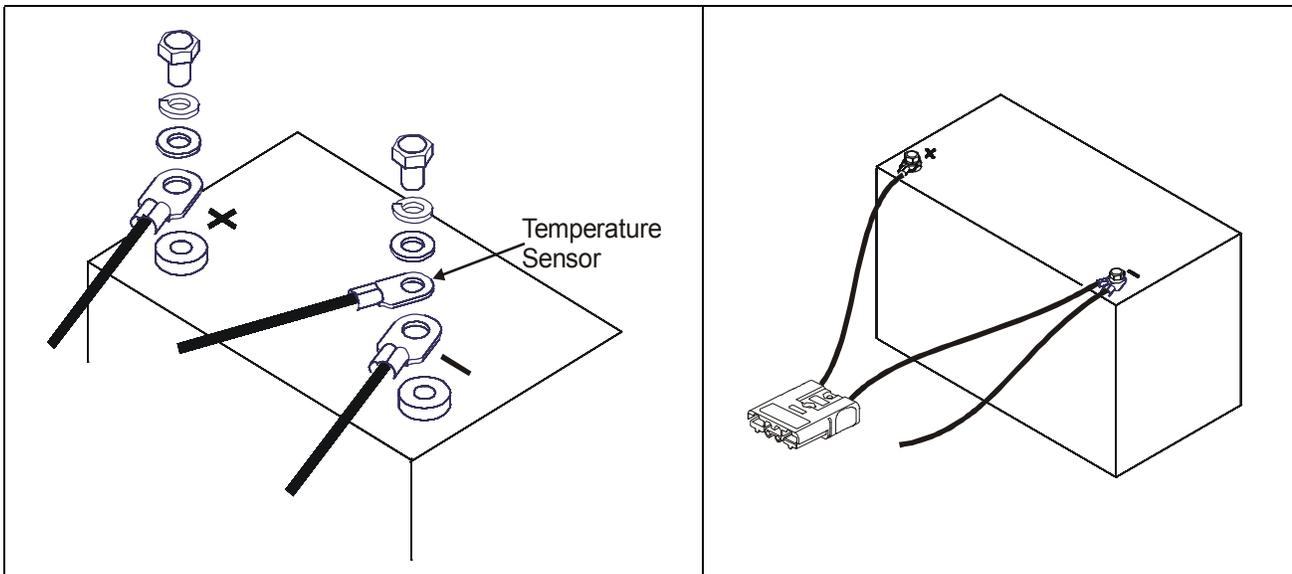
Battery installation procedures will vary depending on installation configuration.

Connect battery cables and temperature sensor

Connect battery cables to each of the four batteries.

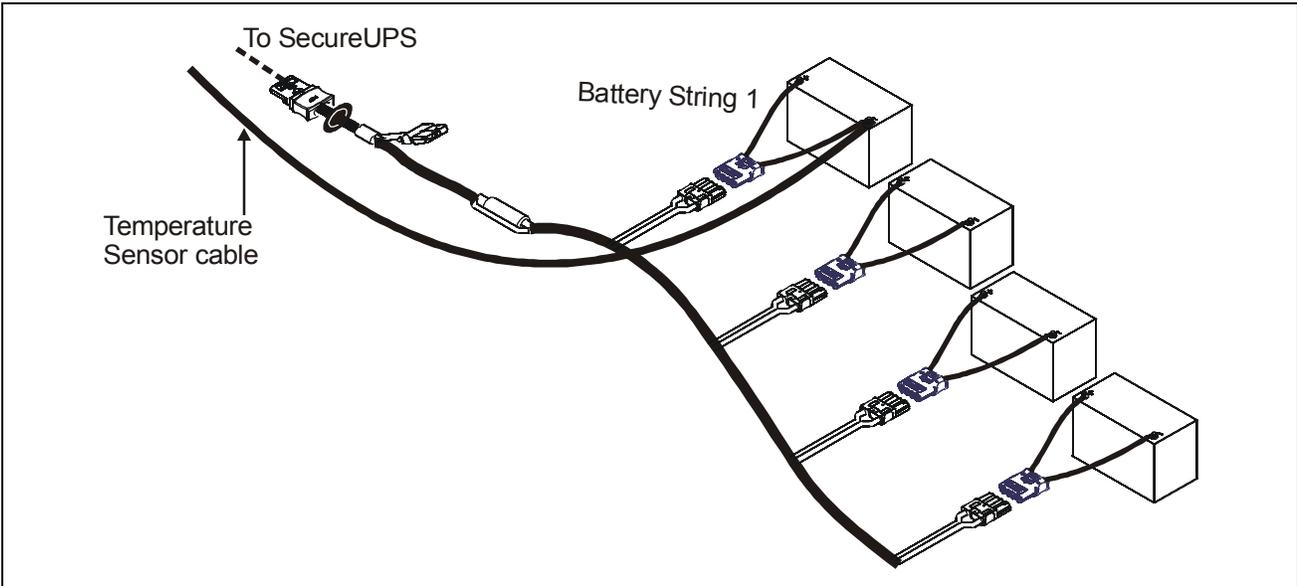
Battery cable connectors are marked positive and negative. Be sure battery cable connectors are attached to corresponding positive and negative terminals.

Attach the temperature sensor cable to a negative battery terminal.



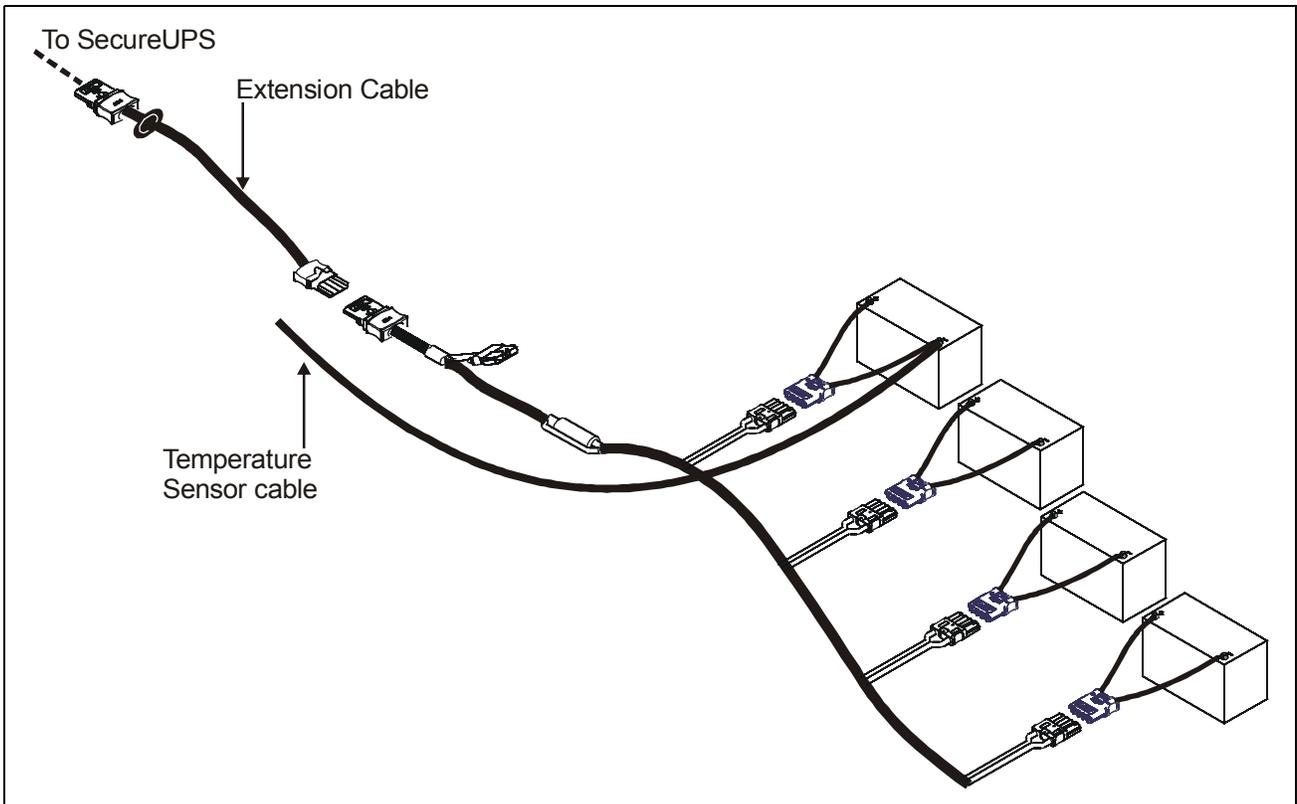
Connect battery harness and temperature sensor cable

Plug each battery cable connector into one of the battery harness connectors marked Battery.
Be sure the connectors are fully engaged.
Battery installation configurations may vary.



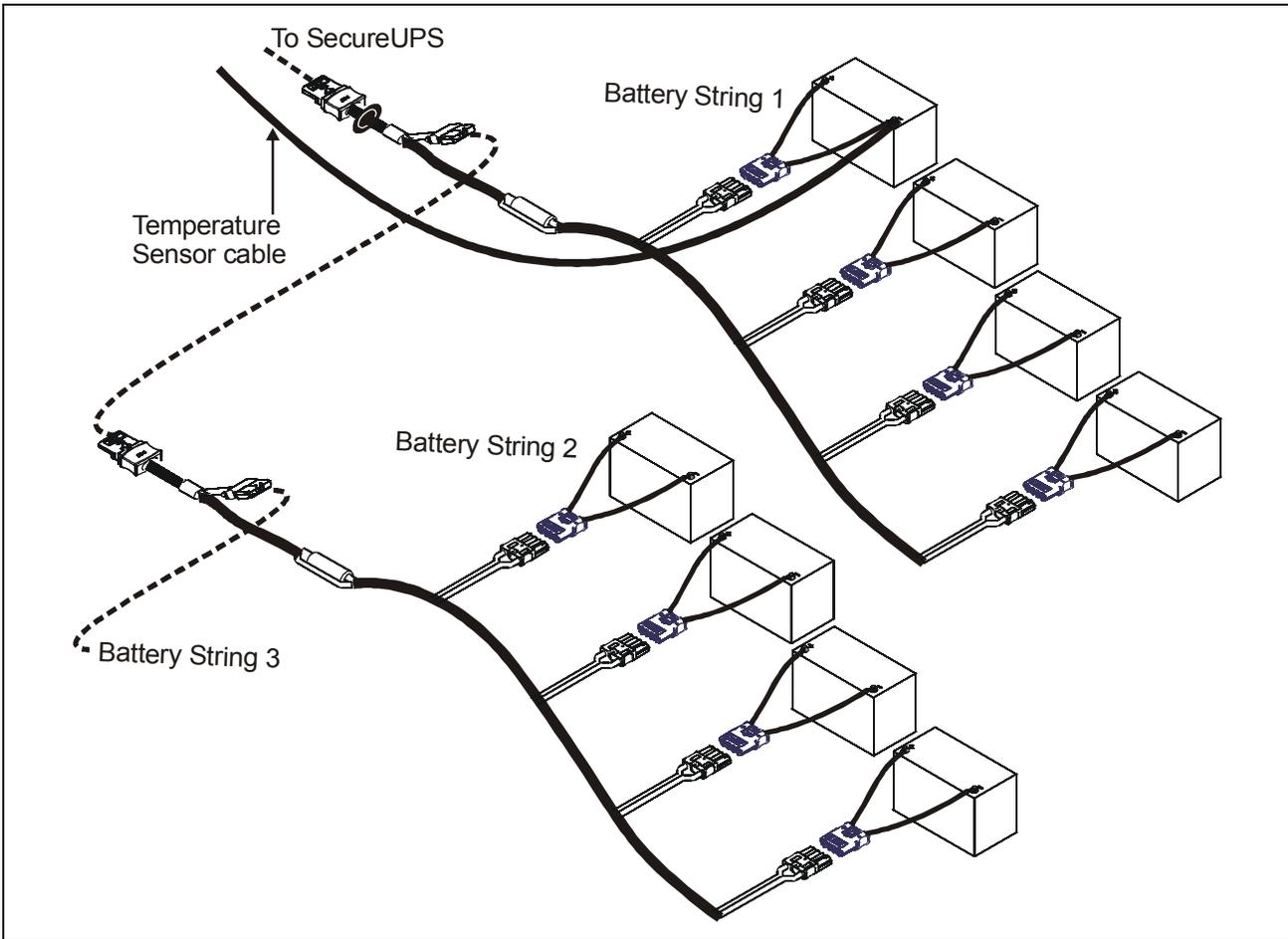
Optional extension cable for SecureUPS model XHXXS7A8F

Use the extension cable for installations where the distance between the batteries and the SecureUPS is greater than the length of the battery harness cable.



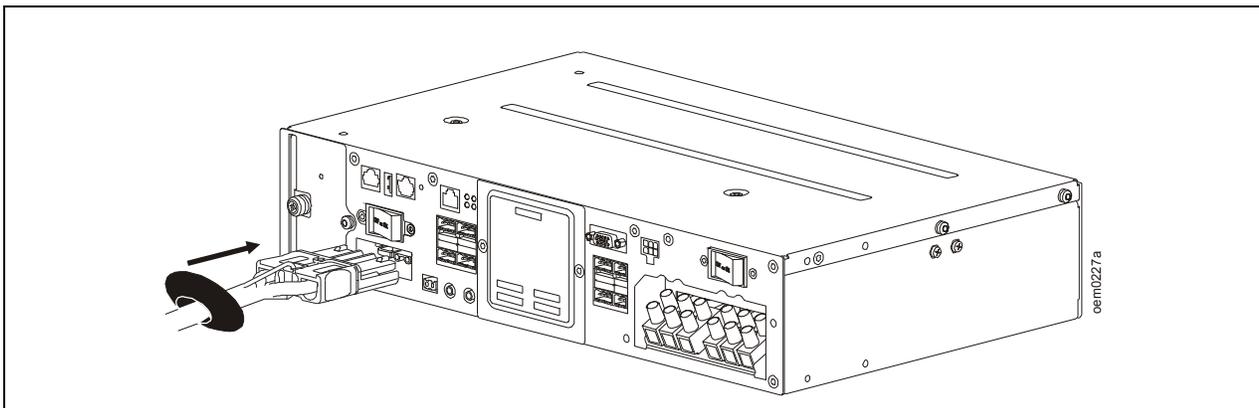
Connect two or more battery strings

Multiple battery strings may be connected to the SecureUPS. Battery installation configurations may vary.



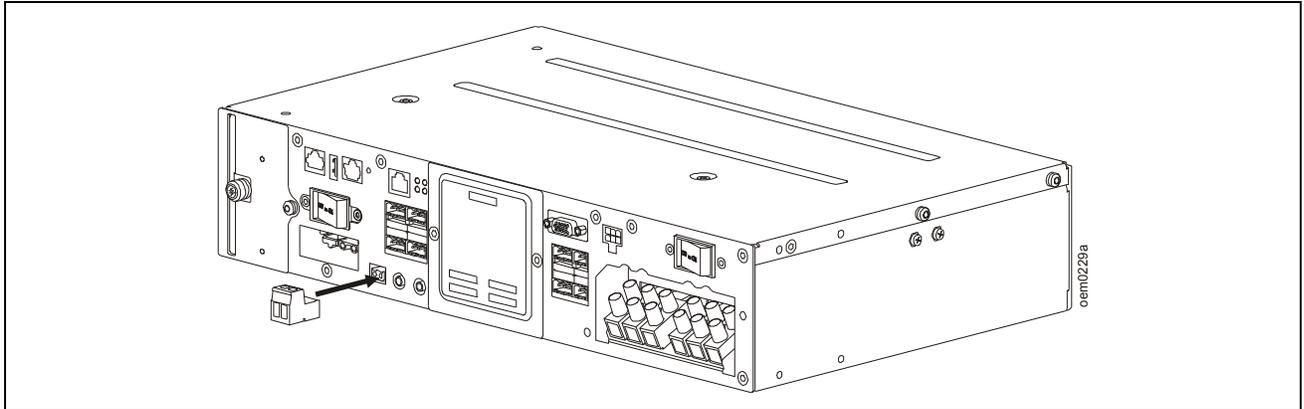
Connect battery harness to SecureUPS

1. Locate the label on the SecureUPS marked Battery Input.
2. Route the battery harness and the temperature sensor cable into the SecureUPS cabinet.
3. Connect battery harness cable to the SecureUPS.
Note: Ensure that the connector with the bead is connected to the SecureUPS.
4. Secure the battery harness and the temperature sensor cable to the cabinet with two cable ties.



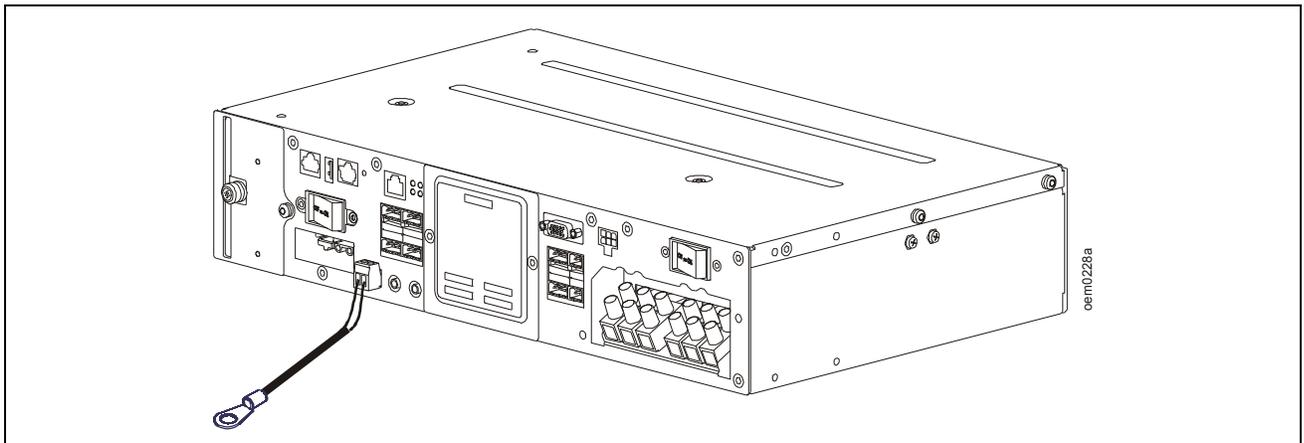
Install terminal block in the SecureUPS

Locate the label on the SecureUPS marked Battery Temperature.
Insert the terminal block in the Battery Temperature port.



Connect temperature sensor cable to the terminal block

Insert one of the stripped wires on the temperature sensor cable into each of the slots on the terminal block.
Tighten the screws located above each slot. Use torque 0.5 Nm (4.4 lbf-in minimum).



Limited Factory Warranty

Schneider Electric IT Corporation (SEIT), warrants its products to be free from defects in materials and workmanship for a period of three (3) years. The SEIT obligation under this warranty is limited to repairing or replacing, at its own sole option, any such defective products. Repair or replacement of a defective product or part thereof does not extend the original warranty period.

This warranty applies only to the original purchaser who must have properly registered the product within 10 days of purchase. Products may be registered online at warranty.apc.com.

SEIT 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 or any third person misuse, negligence, improper installation, testing, operation or use of the product contrary to SEIT recommendations of specifications. Further, SEIT shall not be liable for defects resulting from: 1) unauthorized attempts to repair or modify the product, 2) incorrect or inadequate electrical voltage or connection, 3) inappropriate on site operation conditions, 4) acts of God, 5) exposure to the elements, or 6) theft. In no event shall SEIT have any liability under this warranty for any product where the serial number has been altered, defaced, or removed.

EXCEPT AS SET FORTH ABOVE, THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, BY OPERATION OF LAW OR OTHERWISE, APPLICABLE TO PRODUCTS SOLD, SERVICED OR FURNISHED UNDER THIS AGREEMENT OR IN CONNECTION HERewith.

SEIT DISCLAIMS ALL IMPLIED WARRANTIES OF MERCHANTABILITY, SATISFACTION AND FITNESS FOR A PARTICULAR PURPOSE.

SEIT EXPRESS WARRANTIES WILL NOT BE ENLARGED, DIMINISHED, OR AFFECTED BY AND NO OBLIGATION OR LIABILITY WILL ARISE OUT OF, SEIT 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 SEIT'S SOLE LIABILITY AND PURCHASER EXCLUSIVE REMEDY FOR ANY BREACH OF SUCH WARRANTIES. SEIT WARRANTIES EXTEND ONLY TO ORIGINAL PURCHASER AND ARE NOT EXTENDED TO ANY THIRD PARTIES.

IN NO EVENT SHALL SEIT, 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 SEIT HAS BEEN ADVISED IN ADVANCE OF THE POSSIBILITY OF SUCH DAMAGES. SPECIFICALLY, SEIT IS NOT LIABLE FOR ANY COSTS, SUCH AS LOST PROFITS OR REVENUE, WHETHER DIRECT OR INDIRECT, LOSS OF EQUIPMENT, LOSS OF USE OF EQUIPMENT, LOSS OF SOFTWARE, LOSS OF DATA, COSTS OF SUBSTITUANTS, CLAIMS BY THIRD PARTIES, OR OTHERWISE.

NOTHING IN THIS LIMITED WARRANTY SHALL SEEK TO EXCLUDE OR LIMIT OR DEATH OR PERSONAL INJURY RESULTING FROM ITS NEGLIGENCE OR ITS FRAUDULENT MISREPRESENTATION OF TO THE EXTENT THAT IT CANNOT BE EXCLUDED OR LIMITED BY APPLICABLE LAW.

To obtain service under warranty you must obtain a Returned Material Authorization (RMA) number from customer support. Customers with warranty claims issues may access the SEIT worldwide customer support network through the APC web site: www.apc.com. Select your country from the country selection drop down menu. Open the Support tab at the top of the web page to obtain information for customer support in your region. Products must be returned with transportation charges prepaid and must be accompanied by a brief description of the problem encountered and proof of date and place of purchase.

Customer support and warranty information are available on the APC web site, www.apc.com.