UniStar VP
Power Distribution Unit
120-240V 50/60Hz
Up to 10kVA

INSTALLATION MANUAL
No reproduction of any part of this manual, even partial, is permitted without the authorization of Staco Energy Products Company. The Staco Energy Products Company reserves the right to modify the product described herein, in order to improve it, at any time and without notice.
Table of Contents

1 Overview ................................................................................................................................. 1
2 Safety Warnings ..................................................................................................................... 2
3 Installation ............................................................................................................................... 3
   3.1 Mounting the Equipment ................................................................................................. 3
      3.1.1 Rack Mounting ........................................................................................................... 3
      3.1.2 Floor or Tower .......................................................................................................... 3
   3.2 Electrical Connection ....................................................................................................... 4
      3.2.1 SCV-PDU1 & SCV-PDU2 ....................................................................................... 4
      3.2.2 SCV-PDU3, SCV-PDU4 & SCV-PDU5 ................................................................. 5
      3.2.3 SCV-PDU6 ............................................................................................................... 5
4 Specifications .......................................................................................................................... 7

Figures

Figure 1 - PDU Outline Drawing (All versions) ........................................................................ 1
Figure 2 - Attachment of Rack-mount Bracket ....................................................................... 3
Figure 3 - Input Wiring Diagram .............................................................................................. 4
Figure 4 – SCV-PDU1 &SCV-PDU2 Input wiring ................................................................. 4
Figure 5 – SCV-PDU3, SCV-PDU4 & SCV-PDU5 Input wiring ............................................. 5
Figure 7 – SCV-PDU6 Input wiring to ISO cabinet ............................................................... 5
Figure 8 – SCV-PDU6 Input wiring to UPS cabinet .............................................................. 6
1 OVERVIEW
The Power Distribution Unit (PDU) is designed for use with Staco UniStar VP 6kVA & 10kVA Uninterruptible Power Supplies. The PDU provides easy access to power via multiple outlets. For the purpose of flexibility, both locking and non-locking outlets are available on the front panel. Connection to UPS output power is established through input cords. The ratings of each outlet are listed on the front panel. Each outlet is protected via a resettable breaker located on the front panel.

Figure 1 - PDU Outline Drawing (All versions)
2 SAFETY WARNINGS

IMPORTANT SAFETY INSTRUCTIONS - SAVE THESE INSTRUCTIONS READ AND FOLLOW ALL SAFETY INSTRUCTIONS

- Do not use outdoors.
- The use of accessory equipment not recommended by the manufacturer may cause an unsafe condition.
- Do not use this equipment for other than intended use.
- This equipment connects to the output of an uninterruptible power supply. Hazardous voltages may be present even when the electrical supply to this equipment is turned off.
- Read and follow the instructions that came with the associated UPS or emergency lighting system before operating this equipment.

DANGER

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

WARNING

This equipment connects to the output of a UPS which contains its own energy source (batteries). The UPS output may carry live voltage even when the UPS is not connected to an AC supply.

To reduce the risk of fire and electric shock, install this equipment in a humidity controlled, indoor environment, free of conductive contaminants. Do not operate near water or excessive humidity (95% maximum). If condensation is present, the equipment must be allowed to completely dry before operation.
3 INSTALLATION
3.1 Mounting the Equipment
3.1.1 Rack Mounting
   1. Attach the brackets to the enclosure using the enclosed #10-32 screws (x6).
   2. Use rack-mounting brackets to secure the unit to a standard rack.

   ![Attachment of Rack-mount Bracket](image)

3.1.2 Floor or Tower
   1. If the PDU will be placed on floor or hard surface, the rack mounting brackets are not installed.
   2. The design of the PDU allows the PDU to be placed on any side, except the receptacle side down.
3.2 Electrical Connection

**WARNING**

Only qualified service personnel (such as a licensed electrician) should perform the installation. There is a risk of electrical shock.

![Input Wiring Diagram](image)

Figure 3 - Input Wiring Diagram

3.2.1 SCV-PDU1 & SCV-PDU2

![SCV-PDU1 & SCV-PDU2 Input wiring](image)

Figure 4 – SCV-PDU1 &SCV-PDU2 Input wiring
3.2.2 SCV-PDU3, SCV-PDU4 & SCV-PDU5

![Image of SCV-PDU3, SCV-PDU4 & SCV-PDU5 Input wiring]

ISO Cabinet

Output

G X1 X2 N X3 N

Note: for 208V application, connect black wire to terminal x2

Figure 5 – SCV-PDU3, SCV-PDU4 & SCV-PDU5 Input wiring

3.2.3 SCV-PDU6

![Image of SCV-PDU6 Input wiring]

ISO Cabinet

Output

G X1 X2 N X3 N

Note: for 208V application, connect black wire to terminal x2

Figure 6 – SCV-PDU6 Input wiring to ISO cabinet
Figure 7 – SCV-PDU6 Input wiring to UPS cabinet

Note: for 208V application, set output of UPS to 208V
## 4 SPECIFICATIONS

<table>
<thead>
<tr>
<th>Model Number</th>
<th>SCV-PDU1</th>
<th>SCV-PDU2</th>
<th>SCV-PDU3</th>
<th>SCV-PDU4</th>
<th>SCV-PDU5</th>
<th>SCV-PDU6</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Receptacles</td>
<td>(7) 5-20R</td>
<td>(4) 5-20R</td>
<td>(4) 5-20R</td>
<td>(4) 5-20R, (1) L6-20R</td>
<td>(4) 5-20R, (1) L6-20R</td>
<td>(3) L6-30R</td>
</tr>
<tr>
<td>Voltage</td>
<td>120V</td>
<td>120V</td>
<td>120V &amp; 240V¹</td>
<td>120V &amp; 240V¹</td>
<td>120V &amp; 240V¹</td>
<td>240V¹</td>
</tr>
<tr>
<td>Frequency</td>
<td>50/60 Hz</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Phase</td>
<td>Single</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Max Input Current</td>
<td>50A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Output Voltage Ratings</td>
<td>5-20R: 120V</td>
<td>5-20R: 120V</td>
<td>5-20R: 120V</td>
<td>5-20R: 120V</td>
<td>5-20R: 120V</td>
<td>L6-30R: 240V²</td>
</tr>
<tr>
<td></td>
<td>L5-30R: 120V</td>
<td>L6-30R: 240V²</td>
<td>L6-20R: 240V²</td>
<td>L6-20R: 240V²</td>
<td>L6-30R: 240V²</td>
<td>L6-30R: 240V²</td>
</tr>
<tr>
<td>Output Current Breaker Ratings</td>
<td>5-20R: 20A</td>
<td>5-20R: 20A</td>
<td>5-20R: 20A</td>
<td>5-20R: 20A</td>
<td>5-20R: 20A</td>
<td>L6-30R: 30A</td>
</tr>
<tr>
<td></td>
<td>L5-30R: 30A</td>
<td>L6-30R: 30A</td>
<td>L6-20R: 20A</td>
<td>L6-20R: 20A</td>
<td>L6-20R: 20A</td>
<td>L6-30R: 30A</td>
</tr>
<tr>
<td>Module Dimensions</td>
<td>8.72”(h) x 17.38”(w) x 8.42”(d)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Module Weight</td>
<td>20 lbs</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Note 1: Can be wired to 208V or 240V input.
Note 2: Output voltage will match 208V or 240V input (see Note 1)