WEIGHT AND CENTER OF GRAavity (INSTALLED)

<table>
<thead>
<tr>
<th>Product Code</th>
<th>A</th>
<th>B</th>
<th>C</th>
</tr>
</thead>
<tbody>
<tr>
<td>128S</td>
<td>325 [12.8]</td>
<td>263.8 [10.4]</td>
<td>1027.5 [40.5]</td>
</tr>
<tr>
<td>136S</td>
<td>325 [12.8]</td>
<td>263.8 [10.4]</td>
<td>1027.5 [40.5]</td>
</tr>
</tbody>
</table>

PACKAGED RACK DIMENSIONS

<table>
<thead>
<tr>
<th>Pallet Width</th>
<th>Pallet Depth</th>
<th>Overall Height</th>
</tr>
</thead>
<tbody>
<tr>
<td>1110 [43.7]</td>
<td>1130 [44.5]</td>
<td>2190 [86.2]</td>
</tr>
</tbody>
</table>

PRODUCT SPECIFICATIONS

<table>
<thead>
<tr>
<th>Battery Cabinet Model</th>
<th>DC Voltage Output, V (Nominal)</th>
<th>Battery Nameplate kWh</th>
</tr>
</thead>
<tbody>
<tr>
<td>128S/P</td>
<td>456.8 V</td>
<td>52.6 kWh</td>
</tr>
<tr>
<td>136S/P</td>
<td>516.8 V</td>
<td>64.6 kWh</td>
</tr>
</tbody>
</table>

- **Heat Output:** 567 BTU
- **Top Wiring Interconnect Assembly**
- **Battery Cabinet Floor Mounting**
- **Front View**
- **Side View**
- **Rear View**

**Notes:**

1. The system must be installed on a level floor surface suitable for computer or electronic equipment.
2. The system must be installed in a temperature and humidity controlled, indoor area free of conductive contaminants.
3. Ambient temperature range 18-28°C [64-83°F], relative humidity 5-95% non-condensing.
4. Weight: weights do not include customer wiring.
5. Minimum 914mm [36"] front access needed for servicing.
6. Ventilation is by means of natural convection.
7. All wiring is to be in accordance with national and local electrical codes.
8. Power hookup to UPS: positive, negative, ground.
9. Specifications are subject to change.
10. All dimensions are in millimeters/ inches.

**METRIC**
CUSTOMER SUPPLIED WIRING, TOP INTERCONNECT ASSEMBLY

<table>
<thead>
<tr>
<th>Wire Type</th>
<th>Recommended Minimum Wire Size for 75°C Copper</th>
</tr>
</thead>
<tbody>
<tr>
<td>Battery Wires</td>
<td>4/0 AWG (125°C Min)</td>
</tr>
<tr>
<td>Control Wires (TB1)</td>
<td>16 AWG</td>
</tr>
<tr>
<td>480 VAC UPS Power (TB2)</td>
<td>14 AWG</td>
</tr>
</tbody>
</table>

**RECOMMENDED MINIMUM WIRE SIZE FOR 75°C COPPER STRANDED WIRE**

**RECOMMENDED TORQUE**

**BATTERY WIRES**
- 3/0 AWG (2X per pole) = 519 in-lb
**GROUND WIRES**
- 3/0 AWG = 519 in-lb
**CONTROL WIRES (TB1)**
- 18 AWG = 5 in-lb

480 VAC AUX POWER (TB2)
- 14 AWG (2 SOURCES) = 10 in-lb

**TORQUE**

**NOTE:**
1. EACH TYPE S BATTERY SYSTEM REQUIRES A MINIMUM OF ONE 400-500 VAC 3-PHASE CIRCUIT TO PROVIDE AUXILIARY POWER TO THE SYSTEM.
2. FOR 480 VAC UPS APPLICATIONS, THE BATTERY CABINET IS WIRED DIRECTLY TO A 480 VAC SOURCE.
3. FOR 208/220 VAC UPS APPLICATIONS, THE TOP WIRING KIT INCLUDES TRANSFORMERS TO STEP UP TO 480 VAC.
4. THESE CIRCUITS MUST BE PROVIDED FROM THE CUSTOMER'S ELECTRICAL DISTRIBUTION AND SHOULD BE PROTECTED BY A LISTED 15A DEVICE (CIRCUIT BREAKER OR FUSE) WITH A RECOMMENDED WIRE SIZE OF 14 AWG.
5. SOURCE 1 (REQUIRED) SHALL BE PROVIDED FROM THE UPS OUTPUT DISTRIBUTION. SOURCE 2 (OPTIONAL) SHALL BE PROVIDED FROM THE UPS BYPASS INPUT.
6. FOR PARALLEL BATTERY CABINETS, THE 480 VAC SOURCES CAN BE PROVIDED TO ONLY THE "MASTER" CABINET TOP WIRING KIT AND FROM THERE TO THE PARALLEL CABINETS USING THE SUPPLIED INTERCONNECT HARNESSING.

**TERMINAL BLOCK (TB-1)**

- TB-1: 5, 6, 7, 8, 9, 10, 11, A, B, C, D, E, F, G, H
- TB-2: 1, 2, 3, 4, 5

**NOTE:**
RECOMMEND 3/0 COMPRESSION LUGS
THOMAS & BETTS CATALOG# 54265

**TOP WIRING INTERCONNECT ASSEMBLY**

- TRANSFORMER (QTY. 2) FOR 208/220V ONLY
- DC BUS JUMPERS TO SWITCHGEAR
- 14 AWG HARNESS CONNECTING TB-1 & TB-2 WITH AUTO TRANSFORMER (P-152001819)

**GROUNDING HOLES**
- 1.75" SPACING

**METRIC**

- SCALE 1:2
- SCALE 1:1
- SCALE 1:4

**THIRD ANGLE PROJECTION**

- METRIC

**FRONT**

- DC BUS JUMPERS TO SWITCHGEAR

- 14 AWG HARNESS CONNECTING TB-1 & TB-2 WITH AUTO TRANSFORMER

- GROUNDING HOLES

- 1.75" SPACING

**DETAIL A**

- SCALE 1:1