RELEASE NOTES:
POWERWALL INSTALLATION AND USER’S MANUAL, REV. B

Tesla Energy Certified Installers, take note of these updates to the latest Powerwall Installation and User’s Manual:

PAGE 6, SPECIFICATIONS
The latest version of Powerwall now weighs 97 kg (214 lbs), not 95 kg (210 lbs) as listed in the manual.

PAGE 9-10, REQUIRED TOOLS
The screws that hold the sides of the crate to the wooden blocks inside are size T20 in later packaging, not T25 as listed.

PAGE 12, COMMUNICATION SWITCHES
Switch S3’s setting for most installations should be UP, not DOWN. The corrected table is duplicated below.

<table>
<thead>
<tr>
<th>Switch Number</th>
<th>Usage</th>
<th>Single/Last Unit, CAN</th>
<th>Multi-unit, CAN</th>
<th>Single/Last Unit, Modbus</th>
<th>Multi-unit, Modbus</th>
</tr>
</thead>
<tbody>
<tr>
<td>S2</td>
<td>J7 (Right=CAN)</td>
<td>Right</td>
<td>Right</td>
<td>Left</td>
<td>Left</td>
</tr>
<tr>
<td>S6</td>
<td>J6 CAN Termination (Left=yes)</td>
<td>Right</td>
<td>Right</td>
<td>Left</td>
<td>Left</td>
</tr>
<tr>
<td>S1</td>
<td>J6 (Up=CAN)</td>
<td>Up</td>
<td>Up</td>
<td>Down</td>
<td>Down</td>
</tr>
<tr>
<td>S5</td>
<td>J7 CAN Termination (Down=yes)</td>
<td>Down</td>
<td>Up</td>
<td>Down</td>
<td>Down</td>
</tr>
<tr>
<td>S3</td>
<td>485 Bias (Up=yes)</td>
<td>Down</td>
<td>Down</td>
<td>Up*</td>
<td>Down</td>
</tr>
<tr>
<td>S4</td>
<td>485 Term (Up=yes)</td>
<td>Up</td>
<td>Up</td>
<td>Up</td>
<td>Down</td>
</tr>
</tbody>
</table>

*Exception: S3 position is Down in cases where Modbus bias is NOT required.

PAGE 15, WIRING
The requirement for a 10mm² wire gauge for ground wires in IEC 62109 countries no longer applies. The usual size of wire (4-6 mm²) has been proven sufficient in all supported regions.
PAGES 15-17, CONNECTING THE WIRING AND ATTACHING THE SPLASH COVER

This section gives additional guidance to assist with wire selection, wire installation, and splash cover installation in the field. Careful wire selection and specific routing are required when installing a Tesla Powerwall.

WIRE SELECTION

Select wires according to the *Tesla Powerwall Installation and User’s Manual*. Wires must have the appropriate current and voltage ratings, and must be suitable for the ambient conditions and installation method (for example, some sites might require outdoor rated wires).

To ensure that installation is as simple as possible, it is important to select flexible wires with the smallest overall approved diameter. The **wiring compartment is relatively small and the use of small diameter wires significantly speeds and simplifies the installation process.** DC power wire selection needs particular attention, especially when using “PV wire”: the overall diameter of these wires can vary considerably between manufacturers.

<table>
<thead>
<tr>
<th>Wire</th>
<th>Selection</th>
</tr>
</thead>
<tbody>
<tr>
<td>DC power wires</td>
<td>Small overall diameter, 4mm² (12 AWG) wire</td>
</tr>
<tr>
<td>Enable</td>
<td>Typical wires - 600V outdoor rated, CAT5</td>
</tr>
<tr>
<td></td>
<td>Check overall wire diameter (select smallest available), $\geq 0.5$ mm²</td>
</tr>
<tr>
<td>Logic</td>
<td>Typical wires - Twin core 600V rated flexible wire</td>
</tr>
<tr>
<td></td>
<td>Check overall wire diameter (select smallest available), $\geq 1.5$ mm²</td>
</tr>
</tbody>
</table>

SPLASH COVER

Remove the splash cover prior to wiring.

Before fitting any wires, practice removing and re-fitting the splash cover a few times. The splash cover needs careful alignment to be re-fitted. In particular, avoid pushing in one side first, as this can make fitting the other side more difficult. The best results are achieved by keeping the whole cover square as it is aligned with the mounting holes.

As the cover is fitted, ensure that a “click” is heard as the splash cover depresses the enable button.
THERMAL POWER WIRE ROUTING
Route the thermal power wire behind the factory DC power wires and behind the internal wire harness, as shown:

DC POWER WIRE ROUTING
Pass the DC power wires under the red and black (factory DC power) wires and into the channel to the side of the circuit board. (PV wire examples are shown at the end of this document.)
DATA WIRE ROUTING
Route the data wire **under** the red and black (factory DC power) wires and **above** the DC power wires, as shown:

GROUNDING WIRE
Install the grounding wire from the left of the ground lug:
FINAL WIRE PLACEMENT

To allow the splash cover and bottom cover to fit correctly:

1. Route the data and thermal power wires above the DC power wires.
2. Route **all field-installed wires** down the channel at the side of the circuit board outside the splash cover:

3. Attach the splash cover:
4. Install a “fir tree” zip tie (included with the Powerwall packaging in the exterior shipping pouch) on the field wires and secure them to the metal bracket:

5. To ensure that wires do not interfere with fitting the bottom cover, fasten the factory wires to the field wire bundle with a second zip tie:

6. Attach the bottom cover.
WIRE PLACEMENT USING PV WIRE

It is possible to use PV wire as the DC power wire, if 4mm² wire is used. Larger gauge wire risks crowding the available wiring space. Route the wires in the same order as the above procedure: