

lumin[®]
Installer
FAQ
Guide

VOLUME 1.0



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INSTALLATION QUESTIONS

Mounting the LSP

QUESTION	ANSWER
Where should I mount my LSP?	The LSP can be mounted below, above, to the left or to the right of the existing circuit breaker panel. Approximately 17"x24" of clear space is required to accommodate a LSP above or below a circuit breaker panel and approximately 17"x17" of clear space is required to accommodate a LSP on either side of a circuit breaker panel (NOTE: modifications to the LSP's conduit will be required in order to accommodate mounting the LSP to the left or right of the circuit breaker panel).
Can I utilize junction boxes or combiner boxes to help facilitate the installation of my LSP?	Yes, you can use junction boxes, combiner boxes, or additional hardware as needed to help accommodate your LSP installation so long as each component is utilized/installed in accordance with national, state and local code requirements.
Is my LSP compatible with surface and flush-mounted circuit breaker panels?	Yes, the LSP can be installed with both surface mounted or flush mounted circuit breaker panels. Most surface mounted installation will require extension brackets for mounting, which are provided with your LSP.
Can I utilize junction boxes or combiner boxes to help facilitate the installation of my LSP?	Yes, you can use junction boxes, combiner boxes, or additional hardware as needed to help accommodate your LSP installation so long as each component is utilized/installed in accordance with national, state and local code requirements.
What tools/equipment will I need?	<p>The LSP comes with mounting hardware and mounting brackets (surface-mount installations) but installers will need the following tools to complete the installation process (mounting and wiring):</p> <ul style="list-style-type: none">• Drill• Manual knockout• Wire stripper• Wire nuts (for 6 AWG & 10 AWG wires)• Screwdriver• Tape measure• Level• Drywall saw (flush-mount installations) <p>Additional tools/equipment may be needed depending on the exact installation scenario.</p>

INSTALLATION QUESTIONS

Wiring the LSP

QUESTION	ANSWER
How do I install the LSP's Power Cable Harness?	<p>Install the LSP's Power Cable Harness by connecting the LSP's white wire labeled "Neutral" to the existing neutral bar in the electrical panel; then connect the black LSP wire labeled "Line A" to a breaker located on phase A of the electrical panel; and then connect the red LSP wire labeled "Line B" to a breaker located on phase B of the electrical panel.</p> <p>The LSP wires "Line A" and "Line B" can be connected to their respective breakers via double-tapping the breaker or via a three-way wire nut or via a new, unpopulated breaker if needed.</p>
How do I connect my LSP to the circuits in my circuit breaker panel?	<p>Select a circuit to connect to the LSP, turn it off and disconnect the load with a screwdriver. Then select a LSP wire labeled "Line # A" and connect it to the now vacant circuit breaker with a wire stripper and screwdriver. Next select the LSP wire with the corresponding line number and ending with B (labeled "Line # B") and connect it to the disconnected load with a wire stripper and wire nut.</p> <p>Ensure a tight connection is made between the two wires. Once the connection between the circuit and the LSP is completed you can turn the circuit breaker back on. Repeat these steps until all desired circuits are connected to the LSP.</p>
Which circuits should I connect to my LSP?	<p>Please refer installer to Lumin's Circuit Selection Guide: https://lumin.app.box.com/folder/78148559938</p> <p>Or Lumin's YouTube video: www.youtube.com/watch?v=Q5v9833zbWo&t=1s</p>
Is the LSP only compatible with a certain brand/type of circuit breaker?	<p>The LSP is compatible with all circuit breakers rated up to 60 amps, regardless of the manufacturer or brand.</p>

INSTALLATION QUESTIONS

Wiring the LSP

QUESTION	ANSWER
How do I install the LSP's Grid Voltage Detector (GVD)?	<p>Extend the LSP wires labeled "Grid Neutral" (white) and "Grid Line" (black) and land them in the ATS (supply side) via the appropriate connection (lug, wire nut, line side tap, etc.).</p> <p>If installing your LSP on a sub panel, then land the "Grid Neutral" and "Grid Line" wires into the main circuit breaker panel via the appropriate connection.</p> <p>NOTE: For most Tesla Powerwall installations, Lumin recommends landing the "Grid Neutral" and "Grid Line" wires in the Tesla Gateway via a din rail and fuse holder (not provided) and then performing a line side tap on the supply side line above/before the ATS.</p>
How do I install the LSP's Current Transformers (CTs)?	<p>Lumin's larger 200A CTs are designed to be installed on the existing circuit breaker panel's main supply lines. Do this by connecting the CT labeled "Line A CT" to the corresponding LSP wire labeled "Line A CT." Connect the CT labeled "Line B CT" to the corresponding LSP wire labeled "Line B CT." Attach the CT labeled "Line A CT" to phase A of the main supply line and attach the CT labeled "Line B CT" to phase B of the main supply line.</p> <p>Lumin's smaller 50A CTs are designed to be installed on the PV generation/output line. Connect the CT labeled "Aux B CT" to the corresponding LSP wire labeled "Aux B CT." Attach the CT labeled "Aux A CT" to phase A of the PV generation/output line and attach the CT labeled "Aux B CT" to phase B of the PV generation/output line. If no PV/solar generation line is present then you can attach the auxiliary CTs to an alternative line that adheres to the CTs 50 amp rating.</p> <p>NOTE: Make sure that the marking "K" on the CT is facing toward the grid side.</p>
Can I modify the LSP's wires?	<p>While certainly possible, Lumin does not recommend modifying the LSP's wires as doing so will void the product's warranty and introduces the risk of damaging sensitive internal components.</p>

Registering the LSP

QUESTION	ANSWER
How do I register/setup my LSP?	<p>To register/setup your LSP, please follow these four steps:</p> <p>Step 1. Download the Lumin app from the Android or Apple app stores</p> <p>Android: play.google.com/store/apps/details?id=com.luminsmart.morse Apple: apps.apple.com/us/app/lumin-smart/id1472704942</p> <p>Step 2. Open the Lumin app and create an account</p> <p>Step 3. Once you've created a Lumin account click the "get started" button</p> <p>Step 4. Follow the on-screen instructions to set up your LSP</p> <p>Alternatively, if you are unable to download the Lumin app, you may register your LSP by following our manual setup steps:</p> <p>Step 1. Once your LSP is properly installed and is powered on, connect to the LSP's WiFi network using your computer, laptop, tablet or smartphone:</p> <p>LSP Network Name: Lumin-[Unique ID] (ex. Lumin-888E8E333D) LSP Network Password: luminpass</p> <p>Step 2. Once connected to the LSP's WiFi network, open an internet browser and go to: http://192.168.11.1</p> <p>Step 3. Once you've reached http://192.168.11.1 click the "Start Setup" button to continue the account setup process</p> <p>Step 4. Connect your LSP to the home's WiFi network by selecting the name of the local WiFi network from the dropdown menu (or manually type it in) and entering the local WiFi network password</p> <p>Step 5. Once your LSP is connected to the home's WiFi network, make sure your connecting device is connected to the home's local WiFi network</p> <p>Step 6. Enter an e-mail address and password to create a Lumin account</p> <p>Step 7. Log into your newly created Lumin account</p>

Registering the LSP

QUESTION	ANSWER
How do I label my LSP lines/circuits?	<p>To label your LSP's lines/circuits, log into your Lumin account and follow these three steps:</p> <p>Step 1: Tap the user icon in the upper corner of the screen and select "settings"</p> <p>Step 2: Scroll down to find "Configure Circuit Preferences" and select it</p> <p>Step 3: Select the line/circuit you want to configure and follow on-screen prompts</p> <p>NOTE: dual pole circuits require two LSP lines that should be paired with one another during the labeling process</p>
How do I setup and enable "off-grid mode?"	<p>To enable "Off-grid Mode" please follow these five steps:</p> <p>Step 1: Select the hamburger menu button in your Lumin account to open the side menu</p> <p>Step 2: Select "Modes and Schedules"</p> <p>Step 3: Select "Off-Grid Mode" to configure it</p> <p>Step 4: Toggle the switch in the upper left corner to turn on "Off-Grid Mode"</p> <p>Step 5: Select the circuits that you want to protect in a power outage</p> <p>NOTE: make sure circuits that you wish to remain on/powered during an outage are marked "Protected." Circuits that you want to be automatically shed during an outage should be left un-protected.</p>

Registering the LSP

QUESTION	ANSWER
How do I invite new users to my Lumin account?	<p>To share your Lumin account with others, log into your Lumin account and follow these three steps:</p> <p>Step 1: Tap the user icon in the upper corner of the screen and select "Settings"</p> <p>Step 2: Scroll down to find "Invite Users" and select it</p> <p>Step 3: Enter the email address of the user you would like to invite</p>
How do I change my Lumin account password?	<p>To change/reset your Lumin account password, log into your Lumin account and follow these three steps:</p> <p>Step 1: Tap the user icon in the upper corner of the screen and select "Settings"</p> <p>Step 2: Scroll down to find "Security" and select it</p> <p>Step 3: Enter the current password along with the new password you want to change it to</p>

INSTALLATION QUESTIONS

Lumin Installation Support

If you have additional questions about installing your LSP or you are experiencing any issues during the installation or registration process, please contact Lumin's Customer Support Team:

Phone: 1-888-421-0616 (North America)

E-mail: support@luminsmart.com