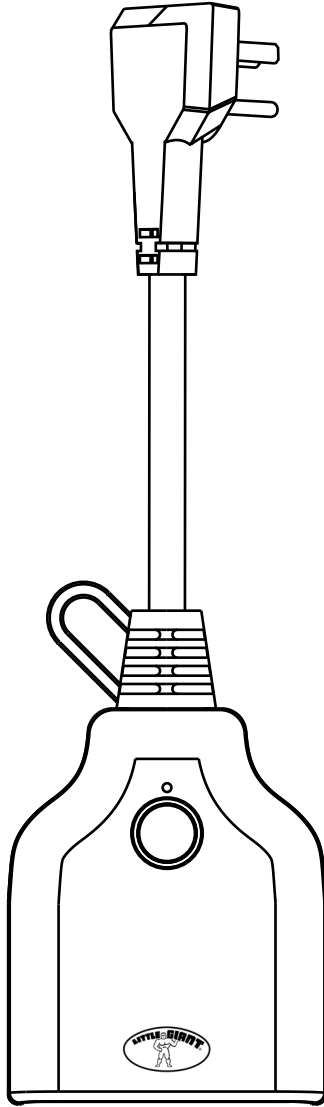




Outdoor Energy Plug

LG6803-UC



Installation & User Guide

Revision Aug. 21, 20226

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A Welcome!

Thank you for purchasing Little Giant® products! We appreciate you trusting Little Giant® for your smart farm and ranch automation needs. Your 100% satisfaction is our goal. If you experience any problems with your installation, with our products or if you have any questions that this manual does not answer, please contact us right away. See the Contact Us section for more info.

Thank you!

Miller Manufacturing

User Guide Conventions

The following icons are used in this guide to convey specific types of information:



Very important information
(can save you time!)



Good to know info but may not
apply to you

B Before You Begin

Visit our Smart Outdoor Smart Plug support page on our website, for the latest installation guides, additional resources, information and videos by visiting:

<https://miller-mfg.com/products/hub>

Or by scanning the QR code:

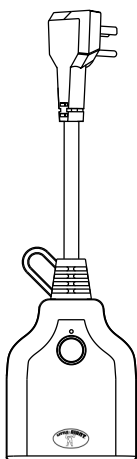


B Before You Begin, Continued

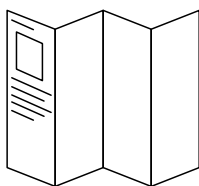


Your Outdoor Smart Plug connects to the internet via a Little Giant® hub, and it does **not** connect directly to your Wi-Fi or local network. In order for remote access to the device from the app, and for full functionality, a hub is required. This guide assumes the BARN-IQ™ app has been installed on your smartphone, and a Little Giant® hub is installed and online (or your location, apartment, condo, etcetera, is already served by a Little Giant® wireless network).

C In the Box



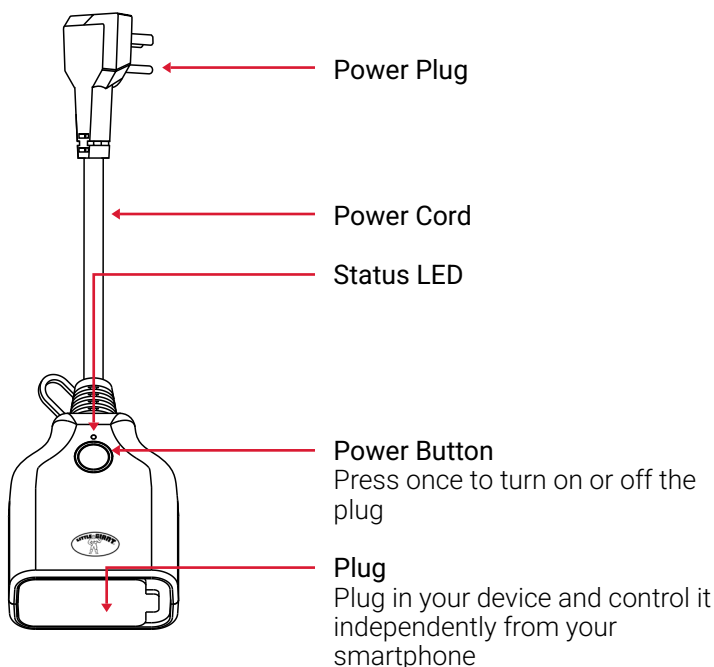
Outdoor Energy Plug



Quick Start Guide

D

Get to Know Your Outdoor Smart Plug



LED Behaviors

- **Green**
Outdoor Energy Plug is On
- **Red**
Outdoor Energy Plug is Off
- ⦿ **Blinking Green**
Connecting to Cloud
- ⦿ **Quick Blinking Green**
Control-D2D Pairing in Progress
- ⦿ **Slow Blinking Green**
Updating
- ⦿ **Quick Blinking Red**
Control-D2D Unpairing in Progress
- ⦿ ⦿ **Blinking Red And Green Alternately**
Restoring to Factory Defaults

E Install the App

If you are new to Little Giant®, please install the BARN-IQ™ App on your phone or tablet, if you have not already. Otherwise, please proceed to the next section.

Scan the appropriate QR code below or find the “BARN-IQ™ App” on the appropriate app store.



Apple phone/tablet
iOS 9.0 or higher



Android phone/tablet
6.0 or higher

Open the app and tap **Sign up for an account**. You will be required to provide a username and a password. Follow the instructions, to set up a new account. Allow notifications, when prompted.

You will immediately receive a welcome email from no-reply@miller-mfg.com with some helpful information. Please mark the miller-mfg.com domain as safe, to ensure you receive important messages in the future.

Log in to the app using your new username and password.

The app opens to the **Favorite** screen. This is where your favorite devices and scenes will be shown. You can organize your devices by room, in the **Locations** screen, later.

F

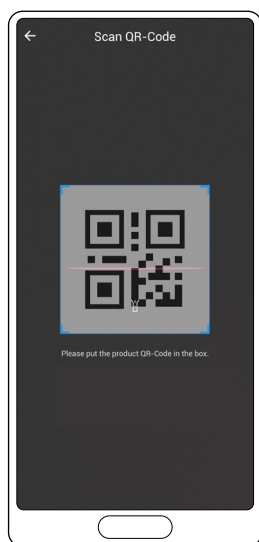
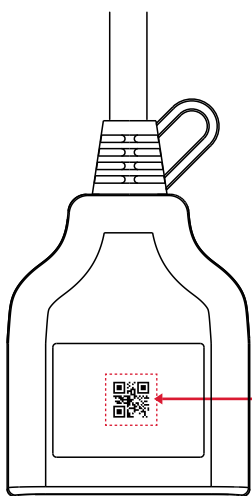
Add Your Outdoor Smart Plug to the App

1. Tap **Add Device** (if shown) or tap the scanner icon:

Scanner icon



2. Approve access to your phone's camera, if requested. A viewfinder will be shown on the app.



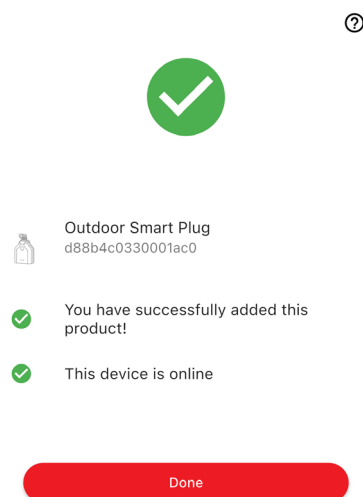
3. Hold the phone over the QR code so that the code appears in the viewfinder. If successful, the **Add Device** screen will be displayed.

F

Add Your Outdoor Smart Plug to the App, Continued

4. You can change the device name and assign it to a location later. Tap **Bind device**

5. If successful, the screen will appear as shown. Tap **Done**.



6. Plug in the Plug to a 120V AC outlet.

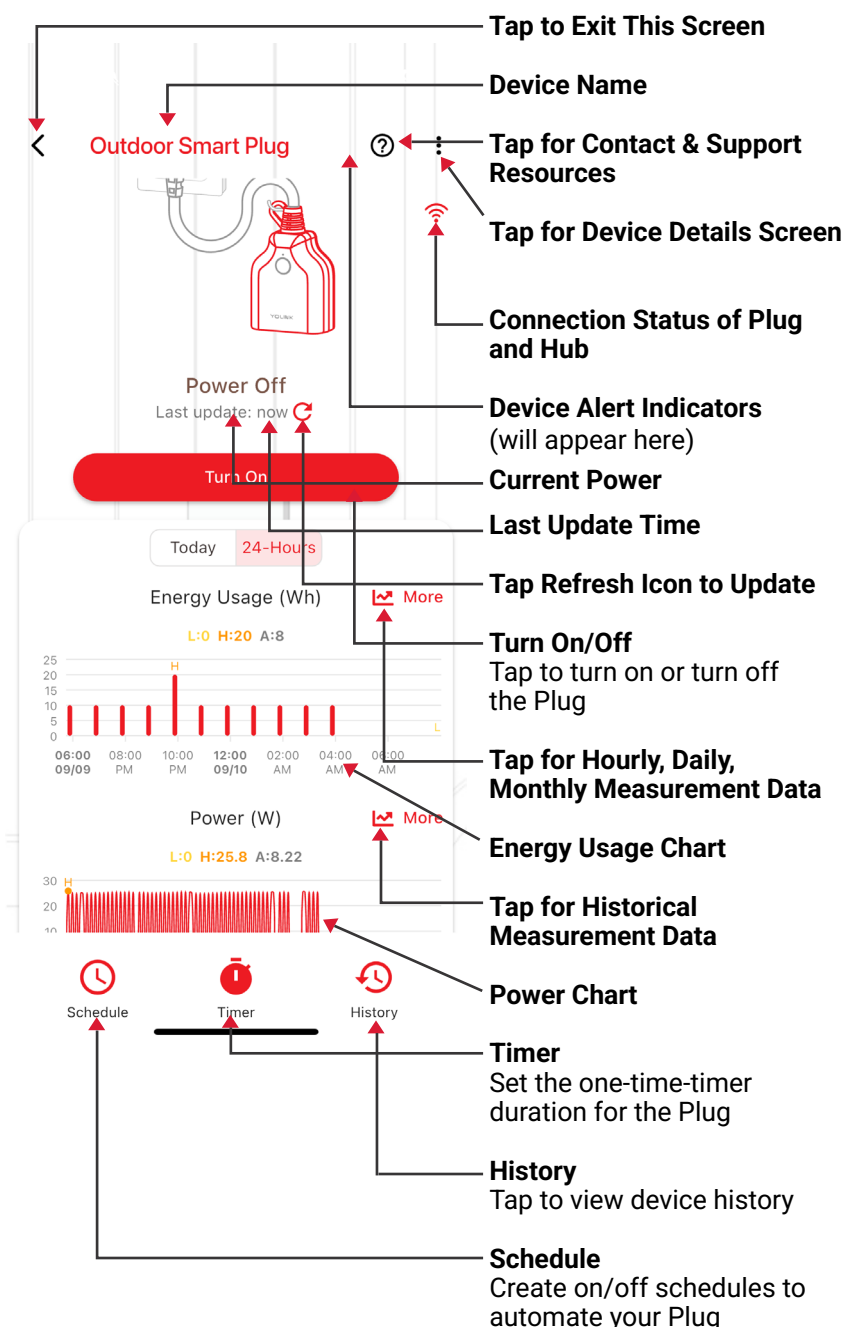
7. To turn the Plug on for the first time, press the Power button briefly, until the LED illuminates.

8. You should now be able to control the Plug from the Power/SET button and from the app.



App Functions: Device Screen

In the app, tap on your Outdoor Smart Plug icon. Your main screen should be similar to the one shown below.





App Functions: Device Details Screen

Tap the three dots (in the upper right corner) to open the **Details** screen. Your screen should be similar to the one shown below.

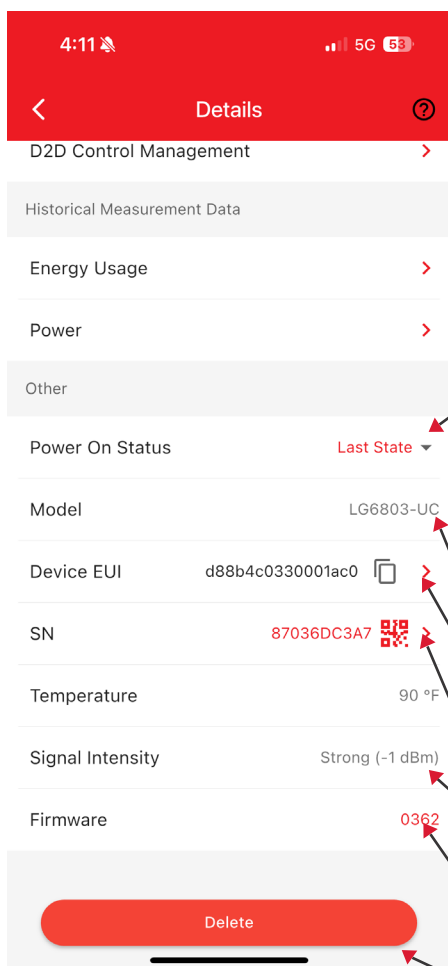
The screenshot shows the 'Details' screen for a device. The top bar is red with a back arrow, the title 'Details', and a question mark icon. The main content area has a white background with a list of settings. Annotations with arrows point to specific elements:

- Device Type**: Points to the 'Outdoor Smart Plug' text next to the 'Type' label.
- Device Name (Tap to Edit)**: Points to the 'Outdoor Smart Plug' text next to the 'Name' label.
- Location (Tap to Edit)**: Points to the 'Not Set' text next to the 'Location' label.
- Favorite (Red if Favorite, Tap to Edit)**: Points to the heart icon next to the 'Favorite' label.
- Alert**: Points to the bell icon next to the 'Alert' label.
- Device State**: Points to the 'On' text next to the 'State' label.
- Time (Tap to sync with mobile)**: Points to the 'GMT-5' text next to the 'Time' label.
- Energy Usage Chart**: Points to the 'Energy Usage' label.
- Power Chart**: Points to the 'Power' label.

The screen also includes sections for 'Historical Measurement Data' and 'Other' at the bottom.



App Functions: Device Details Screen, Continued



Power On Status

Power on status after firmware update or power loss, choose Last State or On or Off. Default is set to Last State

Model Number

Device EUI

Unique Identifier Number

Device Serial Number

Signal Intensity

(From Little Giant® Hub)

Firmware Revision

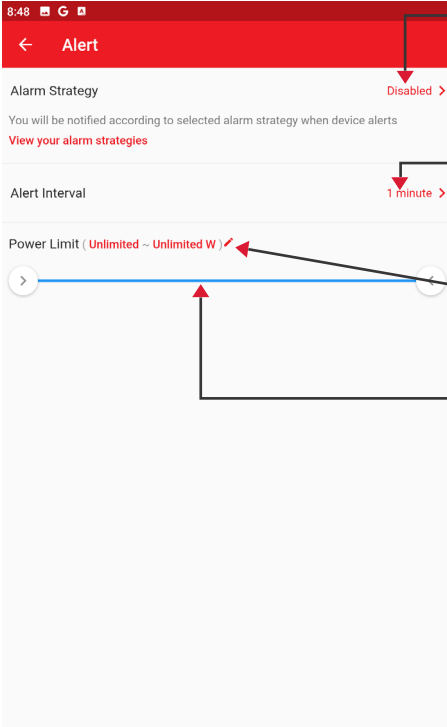
(Refer to page 25)

Remove Device From Current Account

Tap to delete the device from your Little Giant® account



App Functions: Alert Settings Screen



Alarm Strategy

Tap to edit the plug's Alarm Strategy

Alert Interval

Choose how often you want to be reminded after an alert

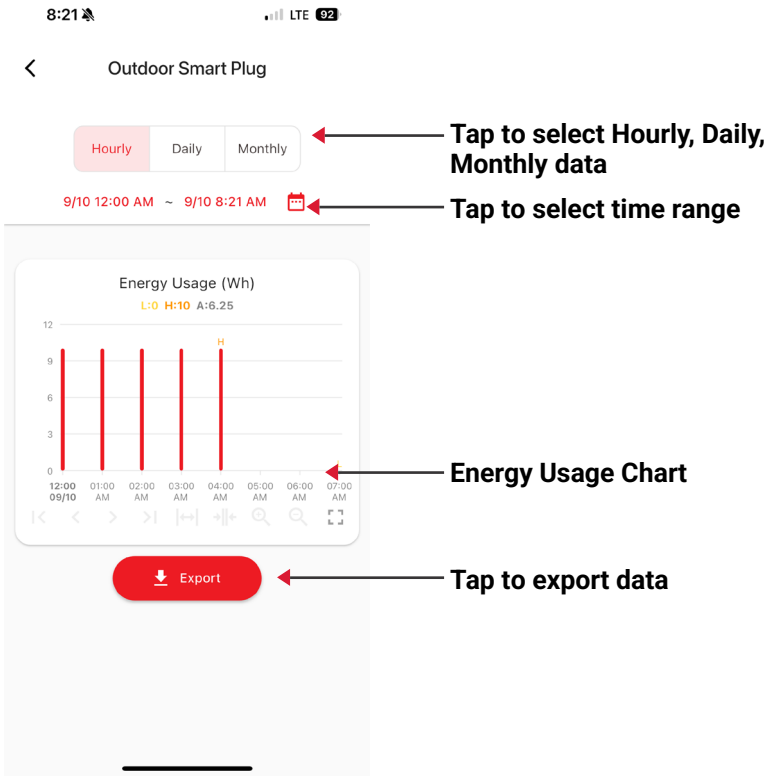
Tap here to open the digital power limit alert settings

Power Limit Alert

Tap the slider control and adjust the high or low alert value. The "normal" range will be displayed in blue text as a low alert value, to the high alert value. You will get an alert when the power exceeds the range you set.



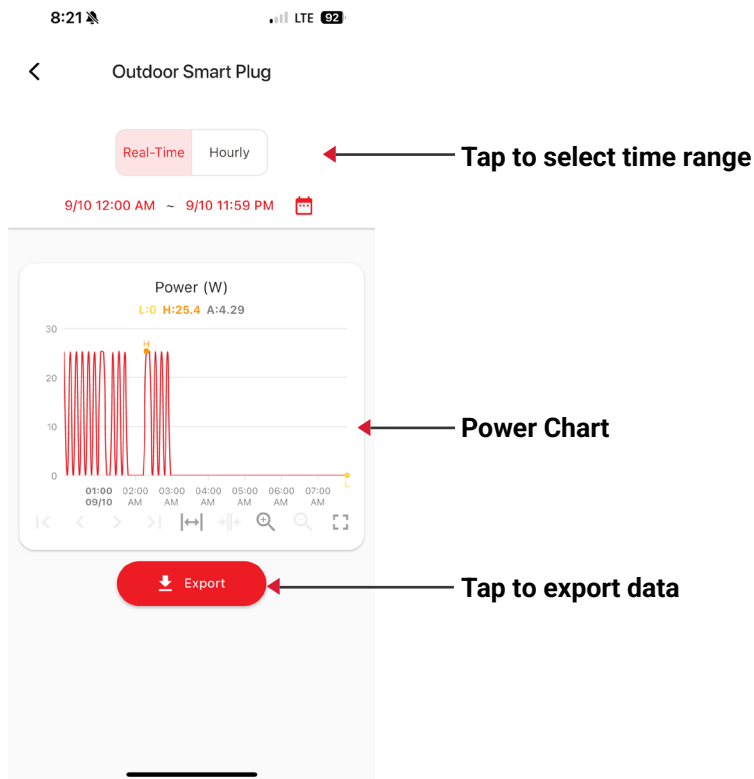
App Functions: Energy Usage Chart Screen



The chart supports pinch-to-zoom in and out with two fingers.



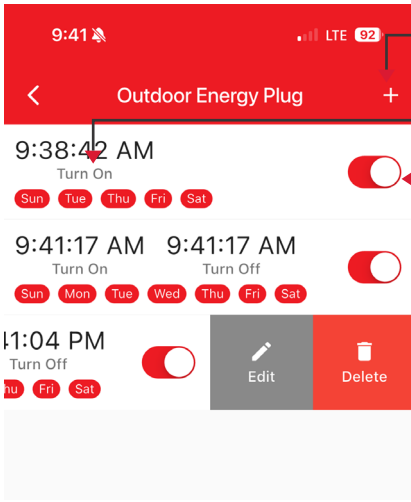
App Functions: Power Chart Screen



The chart supports pinch-to-zoom in and out with two fingers.



App Functions: Schedule



Tap to add a schedule

Tap to edit the schedule

Tap to enable or disable a schedule

Swipe left to show Edit and Delete options



You can have a maximum 6 schedules at one time.

The schedule runs on the device (no internet connection required).

You can add more schedules in Automation settings. Automation settings are saved in the cloud.

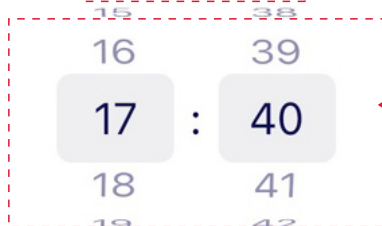


App Functions: Timer



Turn On After Plug

Slide to enable/disable



Set the duration

When enabled, the Plug will turn on after this timer duration has elapsed



Turn Off After Plug

Slide to enable/disable



Set the duration

When enabled, the Plug will turn off after this timer duration has elapsed

The timer starts when the settings are saved (by tapping the checkmark at the upper right of the screen).

You can add more timers in Automation settings. Automation settings are saved in the cloud.

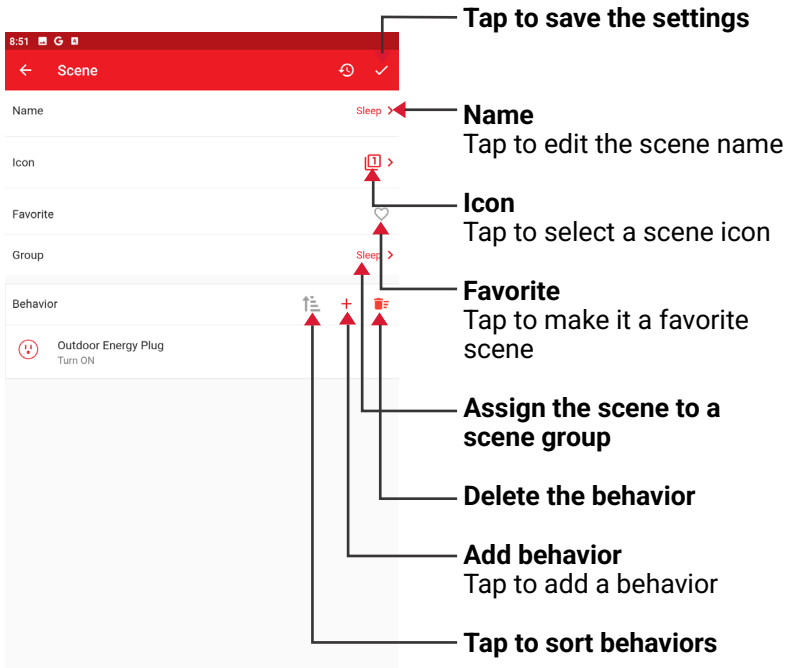


The timer will run only once. You can set a new timer after the timer has already run once or after you cancel it.

The timer runs on the device (no internet connection required).



App Functions: Smart - Scene



The Scene settings are saved in the cloud.

One Scene group only shows one active scene, for example, in Home scene group, if you execute the Home scene, it will show the Home scene activated, if you execute Away scene next, the Away scene will revert the Home scene's active status to off.



App Functions: Smart - Automation

The Outdoor Energy Plug can be set up as a condition or action in automation.

Automation

Tap to save the settings

Edit the name of the automation

Tap to set a schedule for the automation

Add behavior
Tap to add a behavior

Delete the behavior

Tap to sort behaviors

Always Working
Tap to set when the automation can be activated

Advanced Settings
Tap to edit advanced automation and logging settings

The Automation settings are saved in the cloud.

You can edit the Advanced Settings, including save the log, retry if action fails, notify if action fails, etc.



App Functions: Alarm Strategy Screen

You can set up notifications in Alarm Strategy settings, make sure you have enabled App and email notification from the app->Menu->Settings->Account Settings->Advanced Settings, and verified your email address and added your phone number in the app.

The screenshot shows the 'Alarm Strategy' settings screen. At the top, there is a red header bar with a back arrow, the title 'Alarm Strategy', and a help icon (a circle with a question mark). Below the header, the screen is divided into several sections. The first section is 'Name', with a red arrow pointing to the 'Always' dropdown menu. The second section is 'Related Devices', with a red arrow pointing to the '1' dropdown menu. The third section is 'Enable Device Alarm', with a red arrow pointing to the toggle switch. The fourth section is 'Do Not Disturb', with a red arrow pointing to the toggle switch. The fifth section is 'Alarm Latch', with a red arrow pointing to the 'Disabled' dropdown menu. The sixth section is 'Send App Notification', with a red arrow pointing to the 'Admin' dropdown menu. The seventh section is 'Send Email', with a red arrow pointing to the 'None' dropdown menu. The eighth section is 'Trigger Action', with a red arrow pointing to the 'None' dropdown menu. At the bottom, there is a red 'Save' button.

Strategy Name
Tap to edit the name

Related Devices
Tap to add more devices (that can alert) to this strategy, a device can be related to only one strategy

Tap to enable or disable the strategy

Tap to set up DND (Do Not Disturb)



App Functions: Alarm Strategy Screen, Continued

The screenshot shows the 'Alarm Strategy' screen with the following elements and annotations:

- Name:** Always >
- Related Devices:** 1 >
- Enable Device Alarm:** A toggle switch that is currently turned on (red).
- Do Not Disturb:** A toggle switch that is currently turned off (grey).
- Alarm Latch:** Disabled > (An arrow points from this dropdown menu to the 'Send App Notification' section).
- Send App Notification:** Admin > (An arrow points from this dropdown menu to the 'Send App Notification' text).
- Send App Notification:** Will send App Notification to the administrator of this home when device alerts (An arrow points from this text to the 'Send App Notification' text).
- Send Email:** None > (An arrow points from this dropdown menu to the 'Send Email' text).
- Send Email:** Will not send Email when device alerts
- Trigger Action:** None > (An arrow points from this dropdown menu to the 'Trigger Action' text).
- Trigger Action:** Have not set any action
- Save:** A red button at the bottom of the screen.

Send App Notification

Tap to select Admin to enable App push, select All, if desired for all members

Notification Settings (ios only)

Tap to change notification tone, if desired

Send Email

Tap to select Admin to enable email notification, select All, if desired to send to all members

Trigger Action

Tap to choose trigger actions

Q Control D2D

Control-D2D (device-to-device) pairing is a feature. One device can be paired to one (or more) devices. When two or more devices are paired, a link is created, “locking-in” the behavior, so that the device(s) will carry out their paired behavior when required, regardless of a connection to the internet or cloud, and even without AC power (in the case of battery-powered or battery backed-up devices). For example, a Door Sensor can be paired to a Smart Plug, so that when the door is opened, the plug is turned on.

Several important points:

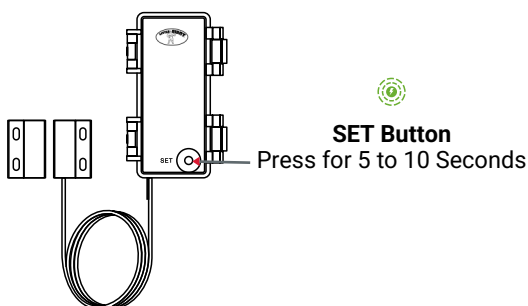
- The use of Control-D2D is entirely optional. It is more common to use the app’s automation and scene settings to create desired behaviors, such as motion sensors turning on the lights automatically. Your application may require functionality during the loss of internet/WiFi, in which case Control-D2D pairing may be preferred.
- A device that controls another device is referred to as a Controller. The device that is controlled is referred to as a Responder.

Q Control D2D, Continued

- While online, any paired behaviors as well as automation and scene settings (desired plug behaviors set in advance by you, such as the motion sensor/plug example) will both be carried out. Paired behaviors and app settings can coexist, but use care to not create conflicting actions between the two, as the device may not operate as desired.
- A device can have up to 128 pairings.
- During D2D pairing, both the controller and the responder must be in the correct operational state corresponding to their intended behavior. For example, if the controller (door sensor) is meant to turn on a plug when the door opens, the door sensor should be in the open state and the plug should be on during pairing.

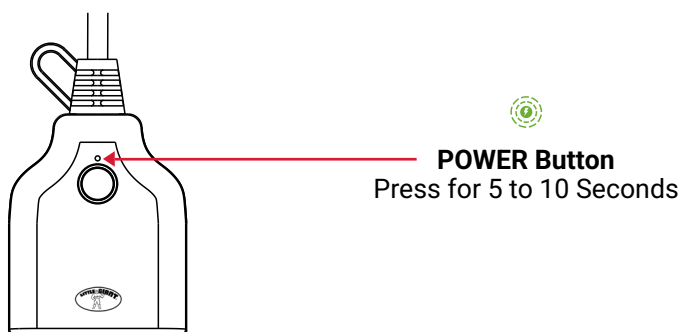
The following instructions use pairing your Door Sensor with a Outdoor Energy Plug as an example, when door is open, turn on the plug.

1. To configure your Door Sensor as a controller, open the door, press and hold the SET button for 5-10 seconds until the LED quickly blinks green, then, release the button.



Q Control D2D, Continued

2. To configure a Outdoor Smart Plug as the responder, turn on the plug by pressing the POWER button or via BARN-IQ™ app. Press and hold the POWER button for 5-10 seconds until the LED quickly blinks green, then, release the button.



3. Upon pairing, the LED will stop blinking (this may happen after only blinking two or three times).

When the door sensor is opened, the plug will turn on. The plug will remain on status until turned off via the app or press the POWER button.

Unpair your Outdoor Energy Plug:

1. On the Door Sensor, press the hold the SET button for 10 to 15 seconds, until the LED quickly blinks red, then release the button.

2. On the Plug, press and hold the POWER button for 10 to 15 seconds, until the LED quickly blinks red, then release the button.



Control D2D, Continued



The LED will flash green prior to the 10 second mark, going into pairing mode, but keep pressing until the LED flashes red. The Controller's pairing is now removed. This door sensor will no longer control the plug.

Factory Reset

Factory reset will erase device settings and restore it to factory default settings. Doing a factory reset will not remove the device from your account and it will not harm the device, or lose any data or require you to redo your automations, etc.

Instructions:

Hold the POWER button down for 20-30 seconds, until the LED blinks red and green alternately. Then, release the button. (Holding the button down longer than 30 seconds will abort the factory reset operation)

Factory reset will be complete when the LED stops blinking.



Only deleting a device from the app will remove it from your account. Factory reset will not delete the device from the app.

T Firmware Update

Your Little Giant® products are constantly being improved, with new features added. It is periodically necessary to make changes to your device's firmware. For optimal performance of your system, and to give you access to all available features for your devices, these firmware updates should be installed when they become available.

In the Detail screen of each device, at the bottom, you will see the Firmware section, as shown in the image below. A firmware update is available for your device if it says "#### ready now"

Other	
Model	YS1603-UC
Device EUI	d88b4c160301c746  >
SN	5707DC86F2  >
Firmware	0356 0359 ready now.

Tap in this area to start the update.

The device will update automatically, indicating progress by percentage-complete. You may use your device during the update, as the update is performed "in the background". The LED will slowly blink green during the update, and the update may continue for several minutes beyond the LED turning off.

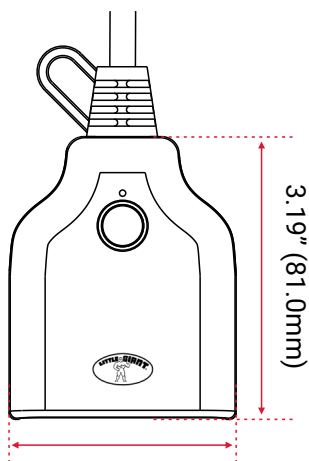


Specifications

Input:	100-120V AC, 60Hz, 15A
Output:	100-120V AC, 15A MAX (Resistive)
Dimensions, Imperial (L x W x D):	3.19 x 2.56 x 1.49 inches
Dimensions, Metric (L x W x D):	81 x 65 x 38 mm
Environment:	Working Temperature: -4°F - 113°F (-20°C-45°C) Working Humidity: ≤ 90% non-condensing
IP Rating:	IP63

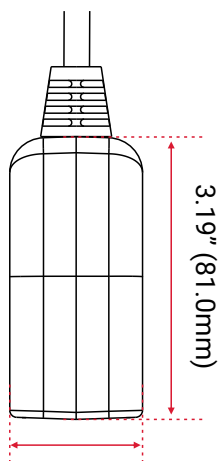


Specifications, Continued



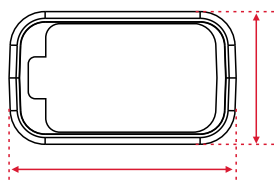
2.56" (65.0mm)

BOTTOM



1.49" (38.0mm)

SIDE



2.56" (65.0mm)

FRONT

1.49" (38.0mm)

Malfunction:

Device is offline:

Possible solution

- If plug is not connected to the cloud, press the POWER button on plug once
- If Hub is offline, reconnect the Hub to the Internet and press the POWER button on plug once
- If Hub is not on, power on the Hub again and press the POWER button on plug once
- If plug is out of range with Hub, relocating the Hub may be required
- If plug is not turned on, turn on the device

Timer does not run:

Possible solution

- Power outages (before or during) can prevent the timer from executing. Press the power button once to turn on/off the plug, also you can turn on/off the plug via BARN-IQ™ app or set a new timer.

If this does not resolve the issue, please contact our customer support department (see the contact info on the last page of this guide).



We recommend checking for and performing any available firmware updates before contacting customer support.

Warnings

- Please install, operate and maintain the Outdoor Smart Plug only as outlined in this manual. Improper use may damage the unit and/or void the warranty.
- Refer to Specifications (page 25) for the device environmental limitations.
- Do not install or use this device where it will be subjected to high temperatures and/or open flame.
- Subjecting this device to outdoor environment conditions such as direct sunlight, extreme hot, cold temperatures or extreme humid, rain, water and/or condensation can damage the device and will void the warranty.
- Install or use this device only in clean environments. Dusty or dirty environments may prevent the proper operation of this device, and will void the warranty. If your Outdoor Smart Plug does get dirty, please clean it by wiping it down with a clean, dry cloth.
- Do not use strong chemicals or detergents, which may discolor or damage the exterior and/or damage the electronics, voiding the warranty.

W Warnings, Continued

- Do not install or use this device where it will be subjected to physical impacts and/or strong vibration. Physical damage is not covered by the warranty.
- Please contact Customer Service before attempting to repair disassemble or modify the device, any of which can void the warranty and permanently damage the device.

Warranty

We We offer a 1 year manufacturing defect warranty for all Little Giant® smart products. You must have proof of purchase in order to begin the process. This warranty does not apply to damage caused by misuse or neglect in the field, failure to follow installation instructions, or damage due to normal wear and tear.

In the event a product needs to be returned for a warranty claim, all returns require a, RMA # (Return Material Authorization). Contact Customer Service at 800-260-0888 for the RMA number before returning the item(s) to our facility.

Visit our product warranties page on our website for our full warranty information:

<https://miller-mfg.com/pages/product-warranties>

or by scanning the QR code:



1. Enclose a note with the product that includes your full name, full address, and phone number. In addition, the provided RMA # and possible problem.

2. Enclose proof of purchase receipt

3. Send the product and above information to:
Miller Mfg. Co., Attn: Repairs, 1450 West 13th
Street, Glencoe, MN 55336 Or call **800-260-0888**
For additional details on our warranty policy,
please visit our website Product Warranties
| Miller Manufacturing Company.

Y FCC Statement

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.



FCC Statement, Continued

- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

To maintain compliance with FCC's RF Exposure guidelines, This equipment should be installed and operated with minimum distance between 20cm the radiator your body: Use only the supplied antenna.

PRODUCT NAME:
Outdoor Smart Plug

PARTY:
MILLER MANUFACTURING

TELEPHONE:
800-260-0888

MODEL NUMBER:
LG6803-UC

ADDRESS:
MILLER MANUFACTURING
GLENCOE, MN 55336 USA

EMAIL:
CUSTOMERSERVICE@MILLER-MFG.COM

Z Contact Us

We are here for you, if you ever need any assistance installing, setting up or using the BARN-IQ™ app or Little Giant® Sensors!

Need help? For fastest service, please email us 24/7 at **customerservice@miller-mfg.com**

Or call us at **800-260-0888**,
Monday - Friday 7:00 AM to 5:00 PM CT.

You can also find additional support and ways to contact us at:
www.miller-mfg.com

Or scan the QR code:



Support Home Page

Finally, if you have any feedback or suggestions for us, please email us at **customerservice@miller-mfg.com**

Thank you for trusting Little Giant®



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www.miller-mfg.com