

SOLAR CHARGING KIT **FAQs**

QUICK SELECTON

- + **General**
- + **Charging Kit Construction & Ratings**
- + **Installation**



GENERAL

What does the kit include?

Each kit includes a solar panel assembly (including a battery), all necessary wiring, a mounting collar and three charging shelves. Each shelf offers two USB ports with 3.1A shared charging capability. The kit does not include a mounting pole. This must be purchased separately.

What type of pole should I use to mount my kit?

The kit works on all straight 4" diameter round light poles – without a light fixture. Simply purchase a blank pole from your lighting supplier and attach the kit. Please note that we recommend a light pole without a mounting fixture (tenon). The collar will not fit over this fixture. If your pole does include this, you can simply cut the pole below the height of the tenon.

Will the station work at night?

Yes. If the panel receives sunlight during the day, the kit will operate after dark. It includes a battery to collect and hold energy throughout the day/night.

How often will the battery need to be replaced?

We estimate batteries will last approximately three years. Battery replacement is simple and requires unscrewing a compartment on the back of the panel housing. Legrand offers replacement batteries under part number XSOLARCSBAT.

What do I do if the USB ports are damaged?

Our USB ports feature a special heavy-duty tab, which significantly limits the amount of damage that may be seen from vandalism. However, even if the USB port is damaged, the kit is designed to be easily replaced. Each unit is modular, and you could order three new USB modules (XSOLARUSBKIT) to replace damaged units and update them on-site, without rewiring the station.

How can I tell if my solar kit has enough power to charge?

Each USB shelf includes LED lights to indicate the station is ready to charge. If the light is not on, there was not enough sun and the battery has not been charged.

How long will it take to charge the station?

Typically, it will take one full day of direct sunlight to recharge the station. Actual charging time would be adversely affected by weather conditions, sunlight received, and any shading/blockage of the solar panel.

Does weather affect the station?

Weather conditions may adversely affect performance and recharging of the station. The station is designed to operate in moderate temperature conditions when people are active outdoors. The recommended temperature range for optimal use is 32 – 100 degrees (0-38C) Fahrenheit. Ambient air temperatures below 2 or above 100 degrees (0-38C) Fahrenheit will adversely affect the performance. The battery will physically turn off at temperatures less than -4 or above 140 degrees (<20C or >60C) Fahrenheit. However, performance will recover when temperatures are within the recommended range.

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CHARGING KIT CONSTRUCTION & RATINGS

How will the kit affect the wind or weight rating of the pole?

Light poles include their own specifications regarding wind and weight ratings. The kit is meant to be installed on a light pole that meets the fixture weight requirement of 50 pounds or greater and has a wind rating that is acceptable for the region where it will be installed. More detail can be found in our installation instructions on specific regions and the recommended angles for the solar panel.

How much weight can the shelves hold?

The shelves have been tested to hold in excess of 300 pounds per shelf.

How many devices can the kit charge?

There are six USB-A ports, each of which could charge a phone or a tablet. A fully charged station can charge up to 15 fully depleted devices* without requiring an additional charge. The exact number of devices that can be charged will vary based on charge level of the solar battery as well as device type.

*Calculation assumes device is an iPhone 8. iPhone is a trademark of Apple Inc., registered in the U.S. and other countries.

What kind of battery and voltage does the station use?

The kit includes a 12Ah Lithium Iron Phosphate battery and the station operates at 12VDC nominal.

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INSTALLATION

How should I install my light pole?

The pole should be installed per manufacturer's instructions. Typical installations include direct burial or anchoring into concrete.

Where should I install my solar kit?

Make sure you install the pole in an area that receives sun at all times throughout the day and year. Even partial shading can affect the charging capability. Avoid installing near trees and buildings where shadows may block direct sunlight to the solar panel. Take into account that the sun will move differently through the sky during different seasons.

Does the angle of the solar panel matter?

Yes. In order to collect energy more efficiently, the solar panel should be angled to face as close to the sun as possible. The panel produces power when light strikes the panel as close to perpendicular as possible. The installation instructions provide a recommendation on what angle to set the solar panel based on the location. You may adjust the angle of the panel multiple times throughout the year to optimize the angle to the sun.

What regions can the kit be used in?

The Solar Charging Kit can be used in any region, assuming the specific installation site offers enough access to the sun. The kit should not be installed in a location where there will be even partial shade at some points throughout the day, as this will decrease the ability of the station to charge.

Can I earn SITES credits for installing the Solar Kit?

When properly installed, this product could contribute to the achievement of SITES §10, Credit 10.1: Option for Innovation, entitled "Support Productive Outdoor Spaces." See Legrand or SITES for the approved Innovation Credit language.