

SolarZone FAQ

Who will Lumos sell the SolarZone to?

Lumos only sells to contractors, businesses, municipalities, schools or other commercial or institutional entities. Lumos **does not** sell direct to homeowners but will connect them with a Lumos Professional in their area.

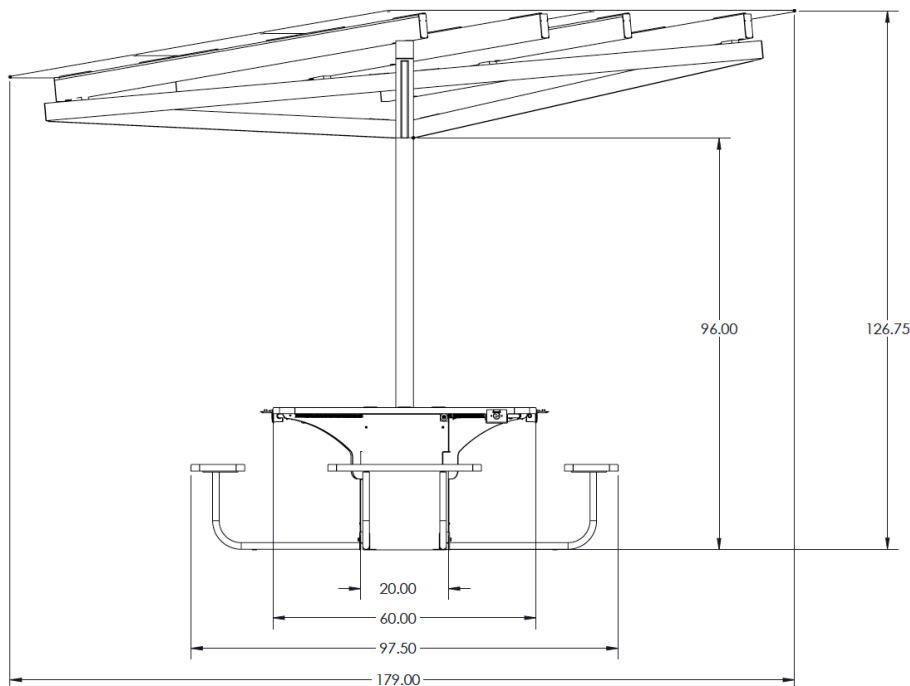
How is the SolarZone delivered?

The **SolarZone** is shipped in a single crate from Denver, Colorado to your location. You will need a forklift to unload the crate onsite or have it delivered to a dock in order to receive. The dimensions of the crate are 122" L x 48" W x 52" H (310cm L x 122cm W x 132cm H). The crate weighs approximately 2800 lbs. (1270 kg)

What is the lead time for delivery from when we place an order?

8 -10 Weeks

What are the dimensions of the SolarZone?



Note: Solar array has a 5° tilt

How long does the SolarZone battery last?

Estimated capacity depends on a variety of factors including installation location, sun exposure, weather, usage, etc... The following estimates are what you can expect to be able to charge once the sun goes down:

SolarZone Capacity

Lights on for 8 hours

Four hours of wireless phone charging per day

Eight hours of computer charging per day

SolarZone Technical Details

Total wattage of solar: 1,800W

Nominal battery capacity: 4,800 Wh (24V, 200Ah)

Allowable depth of discharge: 50%

Battery chemistry: AGM

Maximum continuous load (@77°F): 700W *(This is the maximum amount of power the SolarZone can supply through the AC outlet and wireless chargers, all combined into one load. This is exclusive of lights.)*

We assumed about 60% of nominal capacity when sizing the batteries, which is what remains at 20F. The batteries will operate safely down to about 0F, but with further reduction in capacity. In both cases, the capacity returns when the temperature rises. The likelihood of heavy usage at such low temperatures is minimal, so the reduced capacity is not an issue.

What is the SolarZone Warranty?

Modules 10 Year Workmanship/ 30 Year Power

Mounting Products 10 Year Workmanship/ 3 Year Finish

Electronics 5 Year Electronics/ 3 Year Battery

How long does it take to install?

The **SolarZone** can be installed by two experienced builders in half a day with proper tools and preparation.

Do we need any special equipment to install or move around?

- The **SolarZone** ships in a crate that weighs approximately 2800 lbs.
- The best way to move these around when on-site is by keeping them packed in the crate all the way to the installation site. If that's not possible, then it'll depend what resources you have available and how far you need to transport them.
- The **SolarZone** cannot be relocated while fully assembled. If you need to move them once they've been installed, you will need to disassemble them first.

Do we need a foundation?

No foundations are required. The **SolarZone** can be installed on a concrete slab or directly on the ground using a ballast plate solution. We offer anchoring solutions for both applications.

Is the **SolarZone** eligible for the Federal Investment Tax Credit?

We are solar experts, not tax experts. Tax codes are complicated, so consult your tax advisor before deciding what is best for you. Here is what we do know:

Eligibility for residential properties

If you are installing energy storage on a residential property, it is eligible for a credit under the ITC – as long as the battery is only charged by an on-site renewable energy system like solar. If you don't have solar panels, and plan on charging the battery with electricity from the grid, it isn't eligible for the 26 percent solar tax credit.

Eligibility for commercial properties

If you are installing energy storage on a commercial property, it is eligible for a credit under the ITC as long as the battery is charged by a renewable energy system more than 75 percent of the time. The exact value of the federal tax credit for batteries depends on how frequently the battery is charged by a renewable energy system. To claim the full value, the battery needs to be charged by renewable energy 100 percent of the time. Otherwise, the credit is based on the portion of renewable energy it receives.

What is the Wind Rating and Snow Load?

Designed for 180 mph wind and 89 psf ground snow load

What is the **SolarZone** made from?

Structure is powder coated aluminum.
Table and optional benches are thermoplastic coated steel.
The table is integrated into the design.

How much light does the SolarZone put out?

The standard integrated LED lighting of the SolarZone produces 10,280 lumens. The lights are programmable to turn on and off on any desired schedule via Bluetooth.

How do we install a WiFi Hotspot?

Installing a WiFi hotspot is as easy as plugging it into the standard AC power strip in the cabinet. The **SolarZone** can power any standard WiFi Hotspot to provide WiFi anywhere.

What is the Web Based Data Monitoring Kit?

In order to access the **SolarZone** over the internet, they need to be equipped with the optional **Web Based Data Monitoring Kit** and be able to connect to a 2.4GHz WiFi network. Alternatively, if your hotspot can only create a 5GHz network, you can hardwire the **SolarZone**'s Ethernet port directly to the hotspot. This is really the best option if it's available.

The Web Based Data Monitoring Kit allows the owner to control the **SolarZone** remotely, to check on its status in real-time, and to acquire historical data on solar production and device usage. Here are a few specific things they can do remotely:

- Turn the plugs & chargers on/off
- Turn the lights on/off (otherwise they will operate on a photosensor & timer)
- Get notified if there are any errors, such as low battery or inverter overload
- See how charged the battery is at any time
- See how much solar energy has been produced by the device

Check out these videos to learn more about the SolarZone:

SolarZone Install Timelapse

<https://youtu.be/oum9Jew3e3s>

SolarZone Charge Forward

<https://youtu.be/ptEbE1VojGI>