

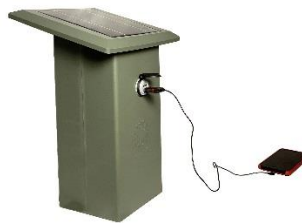
Owner's Manual & Safety Instructions

Save This Manual Keep this manual for the safety warnings and precautions, assembly, operating, inspection, maintenance and cleaning procedures. Write the product's serial number in the front of the manual near the product photo. Keep this manual in a safe and dry place for future reference.

SolarSynthesis® Solar Powered USB Charging Station

Item #61225-07

Item #61225-14



Serial # _____



Read this material before using this product. Failure to do so can result in serious injury.

SAVE THIS MANUAL.

For Customer Support or general questions regarding this product, please e-mail support@solarsynthesis.us

Important Safety Information



WARNING Read all safety warnings and instructions. Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury. **Save all warnings and instructions for future reference.** The warnings, precautions, and instructions discussed in this instruction manual cannot cover all possible conditions and situations that may occur. It must be understood by the operator that common sense and caution are factors which cannot be built into this product but must be supplied by the operator.

SolarSynthesis®

SolarSynthesis® Solar Powered Charging Station is your off-grid power solution. The unit is equipped with an on-board solar panel, solar rechargeable battery, and an internally mounted control electronics module. This aesthetically pleasing unit is ideal for permanent installation around the garden, playscape, patio or any other off-grid location where small amounts of power are routinely required.

Assembly

SolarSynthesis® Solar Powered Charging Stations ship with the battery and solar panel disconnected. Please follow these simple assembly instructions:

Tools Required: Philips Head Screw Driver

1. Remove the three screws retaining the solar cover to the housing. Set the screws aside and remove the solar cover.
2. Once you have removed the cover, Connect the Red wire (+) of the control electronics “battery” line to the Red wire (+) on the battery. These two wires are taped together for ease of identification. Note, the unit ships with the battery fully charged.
3. Connect the DC Connector coming from the control electronics “solar” line to the Solar Cover.
4. NOTE: There is an 18 Volt AC Adapter included with your unit. At any time, you can recharge your battery by unplugging the solar panel and plugging in the AC Adapter. When the unit is fully charged, the green light on the control electronics box will flash.
5. The underside of the cover is labeled for the front and back to assure the correct orientation. Reattach solar cover to housing with the three screws removed in step 1.

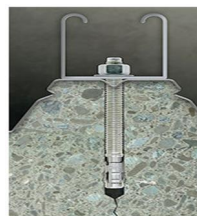
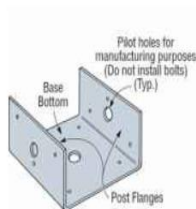
Missing Parts? Need Assistance? General Questions?

DO NOT RETURN THE PRODUCT TO THE STORE

E-mail support@solarsynthesis.us for rapid customer service

Installation

1. Select an appropriate location for your solar charging station where the solar panel receives maximum sun and is not blocked by shadows. Ideally, the unit should face towards the south in the northern hemisphere to maximize the angle of the sun.
2. For permanent installation on wood surfaces, you may purchase a mounting hardware kit SKU 61228-06 at www.solarsynthesis.us. Install lag bolt and washed to post base and torque to 60 ft-lbs. For concrete surfaces, an anchor bolt can be used to secure the unit.



3. Once post base is torqued, slide charging station over post base. Place charging station centered over the post base. Drill small pilot holes in the side of the housing and follow with self-tapping screws provided with the kit.

Operation

1. SolarSynthesis® Solar Powered Charging Stations are shipped ready for immediate use following proper assembly and installation instructions.
2. Lift the waterproof protective cap to expose the dual USB outlet. The blue LED indicator light will be illuminated blue if the battery is sufficiently charged. If the light is not illuminated, the battery does not have sufficient charge and requires exposure to adequate sunlight for a duration sufficient for the battery to reach the supply resume voltage
3. With your phone connected to its charger, insert the USB connector into one of the 2.1A receptacles
4. The 2.1A is designed to provide optimized charging speed
5. It is recommended that you disconnect the battery from the control electronics before storing during periods of non-use. This will prevent the battery from discharge, which will extend its life.
6. NOTE: There is an 18 Volt AC Adapter included with your unit. At any time, you can recharge your battery by unplugging the solar panel and plugging in the AC Adapter. When the unit is fully charged, the green light on the control electronics box will flash.

Specifications

| USB Output | SuperCharge7™ | SuperCharge14™ |
|-------------------------|---------------|----------------|
| Nominal Output Voltage | 5V | 5V |
| Output Receptacle | 4.2A | 4.2A |
| Supply Stop Voltage | 10.6V | 10.6V |
| Charge Stop Voltage | 14.4V | 14.4V |
| Supply Resume Voltage | 12.0V | 12.0V |
| Solar Panel Input | SuperCharge7™ | SuperCharge14™ |
| Maximum Power | 6W | 6W |
| Open Circuit Voltage | 22.0V | 22.0V |
| Optimum Circuit Voltage | 17.5V | 17.5V |

| | | |
|--|--|--------------------------------|
| Short-Circuit Current | 0.36A | 0.36A |
| Optimum Circuit Current | 0.34A | 0.34A |
| Cell Type | Monocrystalline | Monocrystalline |
| Load Parameters | 2400Pa | 2400Pa |
| Battery | SuperCharge7™ | SuperCharge14™ |
| Nominal Voltage | 12 volts (6 cells) (350mA to 10.50 volts) 7.0 | 12 volts (6 cells) |
| Nominal Capacity 20-hr. | AH | (700mA to 10.50 volts) 14.0 AH |
| Max Discharge Current (7 Min.) | 21.0 amperes | 42.0 amperes |
| Max Short-Duration Discharge Current (10 sec.) | 70 amperes | 140 amperes |
| Charge Range | -4° F to 122° F | -4° F to 122° F |
| Discharge Range | -40° F to 140° F | -40° F to 140° F |

| Troubleshooting | | |
|---|---|--|
| Symptom | Problem | Correction |
| USB LED does not light up | Insufficient battery charge | Expose to adequate sunlight for a duration sufficient for the battery to reach its supply resume voltage |
| Solar panel not charging battery with sunlight present | Outside temperature out of charge range | Assure the temperature is within the appropriate charge range |
| | Dirt or debris covering solar panel | Keep panel free of dust, dirt and debris to promote optimal performance |
| Solar panel not charging battery with minimal sunlight conditions | Solar panel voltage falls below the battery voltage | Expose to adequate sunlight such that the solar panel voltage exceeds the battery voltage |
| If symptoms persist | | Contact SolarSynthesis® support |

Limited 1 Year Warranty

SolarSynthesis® makes every effort to assure that its products meet high quality and durability standards, and warrants to the original purchaser that this product is free from defects in materials and workmanship for the period of 1 year from the date of purchase. This warranty does not apply to damage due directly or indirectly, to misuse, abuse, negligence or accidents, repairs or alterations outside our facilities, criminal activity, improper installation, normal wear and tear, or to lack of maintenance. We shall in no event be liable for death, injuries to persons or property, or for incidental, contingent, special or consequential damages arising from the use of our products. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation of exclusion may not apply to you. **This warranty is expressly in lieu of all other warranties, express or implied, including the warranties of merchantability and fitness.**

To take advantage of this warranty, the product or part must be returned to us with transportation charges prepaid. Proof of purchase date and an explanation of the complaint must accompany the merchandise. If our inspection verifies the defect, we will either repair or replace the product at our election or we may elect to refund the purchase price if we cannot readily and quickly provide you with a replacement. We will return repaired products at our expense, but if we determine there is no defect, or that the defect resulted from causes not within the scope of our warranty, then you must bear the cost of returning the product.