



PRODUCT SPECIFICATIONS

WSS 601 MODEL SOLAR SUITCASE

www.wesharesolar.org

The WSS 601 education model Solar Suitcase kit is optimized as a hands-on STEM learning kit for students. The kit comes un-assembled as a package that includes everything required to build a stand-alone 12-volt DC solar power system. The kit includes high quality electrical components, such as switches, a charge controller, pre- crimped wires, and a full-color assembly and commissioning guide with written and visual step-by-step instructions. When assembled, quality checked and paired with a deployment hardware kit and lighting expansion systems from We Share Solar, the Solar Suitcase can be deployed to regions of the world that lack reliable electricity. We Share Solar facilitates deployments of Solar Suitcases to be of service in schools, refugee camps, and community centers in Kenya, Uganda, the Philippines, and Haiti. Solar Suitcases can also be used for emergency preparedness and backup power in a domestic context. Un-deployed Solar Suitcases are intended to be taken apart and re- used as classroom learning sets.



DIMENSIONS

HEIGHT: 12.5" (32 cm)

WIDTH: 15" (38 cm)

DEPTH: 7" (18 cm)

ELECTRICAL SPECIFICATIONS

120 Watts, 12 Volts, 6 amps



WSS 601 BASE KIT

The WSS 601 base kit includes the following components contained within a durable HDPE waterproof case:

- Main control board (panel mounted switchable circuit breakers, solar IN socket, battery socket, load sockets, charge controller that regulates solar charging and 12volt load circuits, wires)
- Internal battery cable
- 5-watt LED light bulb and lamp cord
- 6-in-1 screwdriver
- Assembly and Learning Guide, a Mobile Use Guide and instructional poster
- 2 port USB adapter

When set up for permanent installation and paired with a solar panel and battery, the solar suitcase can store up to 120 watts at 12 volts (6 amps) of solar energy. That equals approximately 400-watt hours of usable energy per day (assuming 5 hours of direct sun). This enables the Solar Suitcase to work well with batteries up to 960-watt hours (12-volt, 80-amp hours).

THERE ARE 4 CONFIGURATIONS: *contact We Share Solar for pricing*

WSS 601 **PKG A – Full Classroom Kit:**

This is the most complete kit, it includes the suitcase, the homerun cable, a 10W PV solar panel, an LED lightbulb with a cord, a two port USB adapter and a 7ah battery: (15lbs 13oz | 7.16kg)



WSS 601 **PKG B – Classroom Kit without Battery:**

This kit, includes the suitcase, the homerun cable, a 10W PV solar panel, an LED lightbulb with a cord and a two port USB adapter. Note: this kit does not include a battery: (10lbs 9oz | 4.78kg)



WSS 601 **PKG C – Base Kit Only:**

This kit consists of only the suitcase, the LED lightbulb with cord and a two port USB adapter. Note: this kit does not include a battery, a homerun cable, or solar panel: (8lbs 6oz | 3.80 kg)



WSS 601 **PKG D – Deployment Kit with Lighting Expansion Kits:**

This kit consists of the suitcase, the LED lightbulb with cord, a two port USB adapter and two switch box kits. Note: this kit does not include a battery, a homerun cable, or a solar panel: (15lbs 12oz | 7.14kg)



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