



## PRODUCT SPECIFICATIONS

### WSS 601 DEPLOYMENT MODEL SOLAR SUITCASE

[www.wesharesolar.org](http://www.wesharesolar.org)

The We Share Solar® Suitcase is utilized in three phases: first as an educational kit which students assemble as a project-based lesson to understand solar electrical systems and service-learning on energy poverty. The second phase is as a solar electrical system to light and power schools and community facilities in regions that do not have access to reliable electricity. Third, the Solar Suitcase is used as a student-sized demonstration tool for pupils in energy poor schools to learn about solar electricity.

### BASIC SOLAR SUITCASE

The Solar Suitcase is a complete system that includes solar charge and load regulation, circuit breakers for switching and safety, and sockets for lights and charging 12 volt and 5 volt DC appliances such as mobile phones and e-readers.

The Solar Suitcase is housed in a watertight high density polyethylene case. The components are high quality: selected for their ability to last 15+ years in challenging environments. The case can remain portable or be attached to a wall. The case comes with two light cords that plug directly into the Solar Suitcase and two lighting expansion switch box systems that each control two additional 12 volt DC LED lights, for a total of six LED lights. Before deployment to a recipient country, the Solar Suitcase is professionally checked for quality assurance and outfitted with installation hardware. System capacity can be expanded with the addition of solar panels and larger batteries.



#### SOLAR SUITCASE (BASE KIT)

HEIGHT: 12.5" (32 cm)  
 WIDTH: 15" (38 cm)  
 DEPTH: 7" (18 cm)  
 WEIGHT: 10 pounds 1 ounce (4.6 kg)

#### ELECTRICAL SPECIFICATIONS:

120 Watts, 12 V, 6 amps

#### COMPLETE DEPLOYMENT PACKAGE:

HEIGHT: 22" (55 cm)  
 WIDTH: 16" (40 cm)  
 DEPTH: 14" (36 cm)  
 WEIGHT: 25 pounds 8 ounces (11.7 kg)

## BASIC COMPONENTS

### LED Lights on Cords (Quantity 2)



Two LED lights (5W) provide clean, bright ambient light. The lights connect to the suitcase via the receptacle located on the main control board. The lights included in the solar suitcase run on 12 Volts DC and are able to withstand travel, heat, moisture and dirt.

#### SIZE & WEIGHT

**WEIGHT:** 12 ounces (.34 kg)  
**CORD LENGTH:** 23 feet (7m)

#### SPECIFICATIONS

**POWER:** 5 watts  
**VOLTS:** 12 volts  
**COLOR TEMPERATURE:** 5000K

### LED Lights via Switch Box (Quantity 2)



Two switch boxes with two LED lights (5W) each extends lighting capacity of the Solar Suitcase. The switch box is connected through the field wiring box in the Solar Suitcase to power the switch box LED lights.

#### SIZE & WEIGHT

**WEIGHT:** 4 pounds 2 ounces ( 2 kg)  
**CORD LENGTH:** 30 feet (9m)

#### SPECIFICATIONS

**POWER:** 5 watts  
**VOLTS:** 12 volts  
**COLOR TEMPERATURE:** 5000K

### Headlamp (Quantity 1)



Adjustable headlamp is equipped with powerful LED lights and is rechargeable with a USB adapter.

### Micro USB Adapter and USB Charging Cord (Quantity 1)



The Solar Suitcase includes a single two port USB adapter and an additional charging cord (USB to Micro-USB).

### USB Hub (Quantity 1)



A charging hub with 4 USB slots for charging small devices such as mobile phones, e-readers and tablets during the day.

### Deployment and Installation Kit (Quantity 1)

The Solar Suitcase also comes with a user poster, user guide, solar homerun cable, external battery cable, and mounting hardware. Includes additional curriculum resource books: Mirembe the Solar Dreamer and a Solar Suitcase Learning Guide.