



**We Care
Solar**

PRODUCT SPECIFICATIONS

SOLAR SUITCASE LEARNING KIT (SLK-200)

wecaresolar.org

The Solar Suitcase Learning Kit is optimized as a hands-on STEM learning kit for middle and high school students. It comes unassembled and includes everything required to build a fully functional 12-volt DC solar electric system: a solar panel, charge controller, wires, connectors, circuit breakers, switches, DC power receptacles, and a full-color illustrated assembly guide. The solar panel can fully charge the kit's battery in 6 hours of sunlight, providing 10 hours of light or enough power to charge three smartphones. The kit is designed to be disassembled and rebuilt year after year. Every kit purchase contributes to the deployment of a commercial-grade We Care Solar Suitcase to a school or health clinic in energy-scarce regions across Africa.



SIZE

Height: 14.5 inches (370 mm)

Width: 18.9 inches (480 mm)

Depth: 6.2 inches (157 mm)

WEIGHT

Empty: 6.67 lbs (3.024 kg)

Full: 16.55 lbs (7.508 kg)

ELECTRICAL SPECIFICATIONS

Power Generation: 10W, 12V

Energy Storage Capacity: 64Wh, 12.8V

Max Power Output: 48W, 12V

We Care Solar Suitcase Learning Kit – (SLK-200-REV A)

KIT COMPONENTS:

- Solar Panel: 10W, 12V
- Lithium Battery: 12.8V, 5Ah, 64Wh
- Charge Controller: 12V/24V, 10A, 50VDC
- LED Light Bulbs (5W), Light Cord, and Hanger
- Two Mini Motors + Two Mini Solar Panels: 2V, 200mA
- Digital Multimeter
- Wires and Electrical Components
- Screwdriver
- Metal Chassis
- Assembly Guide (illustrated)
- Storage: Plastic Solar Suitcase Kit Box, Parts & Tools Box and Bag

