



We Care Solar Suitcase

2019 Product Specifications

www.wecaresolar.org

Solar Suitcase



Advanced solar controller, controls, sockets, and battery - all in a water-and-dust tight suitcase made to hold up in harsh environments. System contains an integrated 12V, 20Ah battery, which is charged by a solar panel. Suitcase has two WCS Lighting Sockets, two 12VDC Accessory (lighter) Sockets, two USB ports, and two Expansion Ports to allow for optional accessories or additional lights. A 40' homerun cable and all necessary installation hardware is included. Custom display and user-interface make operation simple and intuitive.

Size and Weight

Height: **19.75** inches (501.6 mm)
Width: **15.53** inches (394.4 mm)
Depth: **7.48** inches (190 mm)
Weight: **32** pounds (14.5 kg)

Power

Max. Power: **240** watts
Max. Current: **20** amps
Operating Voltage: **11.4 to 14.4** volts
Operating Temp.: **0°C to 40° C**

Hi-Efficiency Lights



Four high-efficiency, rugged, LED lights provide up to 720 lumens and have a color-rendering capacity suitable for medical use. The lights connect to the suitcase via the WCS Lighting Connectors. They are designed by WCS to withstand exposure to heat, moisture, dirt and impact.

Size and Weight

Height: **4.5** inches (11cm)
Width: **2** inches (5cm)
Depth: **1** inch (2.5cm)
Cord: **33** feet (10m)
Weight: **1.1** pounds (0.5 kg)

Power

Load: **1-6** watts (dimnable)
CRI: **>91** (R9>70)
Color Temp: **4950** K

Headlamps

Adjustable LED headlamps are charged with the included micro-USB cable. The micro-USB cable plugs into one of the Solar Suitcase's USB ports.





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Fetal Doppler and Battery Charger



A portable fetal Doppler allows health providers to detect the fetal heart rate. The fetal Doppler uses rechargeable AA batteries. A Tenergy AA/AAA battery charger is included for charging the Doppler batteries. Four rechargeable AA batteries are included.

Battery



One Lithium Ferrous Phosphate (LFP) battery provides lightweight and rugged energy storage.

Size and Weight

Height: **6.6** inches (167mm)
Width: **3** inches (77mm)
Length: **7.2** inches (181.5 mm)
Weight: **6.7** pounds (3.0 kg)

Energy

Max Capacity: **256** watt-hours
Max Usable Capacity: **256** watt-hours
Life Expectancy: **4-7** years

Solar PV Panel



Aluminum Framed Solar Panels can be ordered in a range of sizes. These can be sourced from our in-country suppliers or directly from We Care Solar.

Energy

Power: **65 - 240 W**
Max Current: **20 A**
Voltage: **12V - 24V** (nominal)
Max Voltage: **50V** (VOC)
Life Expectancy: **>10** years

Light Expansion Box



The Light Expansion Box provides switches and sockets that can be installed in a room up to 40' (12.1m) from the Solar Suitcase. The box supports two additional lights and connects to the Solar Suitcase via the expansion socket located on the Solar Suitcase control panel.

Weight

Weight: **1.7** pounds (.77 kg)