



# We Care Solar Suitcase

## 2016 Product Specifications

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

### Solar Suitcase (WCS-200)



Advanced solar controller, ports and plugs, in watertight and dust-proof high-quality suitcase, made to hold up in harsh environments. System contains an integrated 12V, 12.8Ah battery, which is charged by a solar panel. Suitcase has 2 WCS Lighting Connectors, two 12VDC Accessory (lighter) Sockets, and two Expansion Ports to allow for optional accessories. A homerun cable and installation hardware are included.

#### Size and Weight

Height: **19.75** inches (501.6 mm)  
Width: **15.53** inches (394.4 mm)  
Depth: **7.48** inches (190 mm)  
Weight: **30** pounds (13.6 kg)

#### Power

Max. Power: **180** watts  
Max. Current: **15** amps  
Operating Voltage: **11.4 to 14.4** volts  
Operating Temp.: **0°C to 45° C**

### Hi-Efficiency Lights



Two high-efficiency, rugged, 4W LED lights provide over 325 lumens each and have a color-rendering capacity optimized for medical use. The lights connect to the suitcase via the WCS Lighting Connectors. They run directly on 12VDC and are designed by WCS to withstand exposure to heat, moisture and dirt.

#### Size and Weight

Height: **5** inches (127 mm)  
Width: **2.2** inches (56 mm)  
Depth: **0.9** inch (23 mm)  
Cord: **33** feet (10m)

#### Power

Load: **4** watts  
CRI: **>85 (Ra)**  
Color Temperature: **5000° K**  
Life Expectancy: **50,000** hours

### Phone Charger



Both a USB > microUSB cable, and a 10-in-1 USB cable are supplied, supporting charging of a wide variety of cell phones.

### Headlamps



Adjustable headlamps are equipped with LEDs and are charged by a micro-USB cable. The micro-USB cable plugs into a 12V USB adaptor included in the Solar Suitcase.



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### Fetal Doppler and Battery Charger



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

### Battery (LFP)

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



#### Size and Weight

Height: **4** inches (101.6 mm)  
Width: **6** inches (152.3 mm)  
Depth: **4** inches (101.6 mm)  
Weight: **3.75** pounds (1.7 kg)

#### Energy

Max Capacity: **153.6** watt-hours  
Usable Capacity: **153.6** watt-hours  
Life Expectancy: **4-7** years

### Solar PV Panels

(PVP)



**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: 40-250 W  
Max Current: 15 A  
Voltage: 12V (nominal)  
Life Expectancy: >10 years

### Light Expansion Box



**The Light Expansion Box (SAT-100)** provides switches and sockets that can be installed in a room up to 10 meters from the Solar Suitcase. The box supports 2 additional lights and connects to the Solar Suitcase via the expansion socket located on the Solar Suitcase control panel.