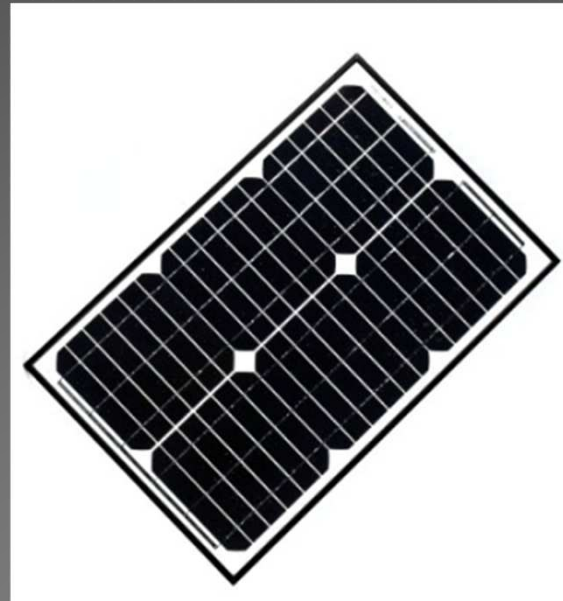


Team 1

Solar Starter SOS (SSS)



Mao Lee



<http://www.amazon.com/Chrome-Portable-Lithium-Battery-Starter/dp/B00H4FNX0Q>

<http://www.amazon.com/ALEKO-25W-25-Watt-Monocrystalline-Solar/dp/B00BGDRHGU>



Shangxing Sun



Roc Lloyd



Rebecca Tesch



Lisa Luo



Bopeng Zhao

Solar Starter SOS (SSS)

Purpose of Product

- Portable battery pack
- Jump-start a car
- USB charger

Features

- Solar and 120VAC charging options
- Able to jump-start a car
- 5V Output
- Multi-mode flashlight (including SOS)

Market

- Intended for operation in the United States for use in indoor and outdoor settings

SSS - Key Requirements

Cost

- Sales Price: \$150
- Component Cost: \$50
 - \$20 components
 - \$30 solar panel
- Assembly & Test Costs: \$20

Power Inputs

- Residential AC Power: 100 – 240 VAC @ 50/60 Hz
- Solar Power: 25W, 12V, 2A
- Battery Power: 1 Sealed Lead Acid, 12V, 2A, 15 Ah

Environment

- Indoor / Outdoor
- Portable / Lightweight
- Operating Temp Range:
 - 0 C to 60 C

Major Functions

- USB: 5V, 2A
- Jump Starter: 12V, 200A starting, 400A peak
- Flashlight: Multi-Mode
 - Strobe
 - SOS

SSS - Block Diagram

