

# Solis ESS 51.2V 55Ah 2.8Kwh Removable Lithium Battery

## Overview

High Quality Lithium Battery 51.2V 55Ah 2.8Kwh Ion Batteries Pack Stacked Energy Storage Battery for solar system

## Specifications

<b>Model Number</b>	SWB51.2V-55Ah
<b>Capacity</b>	2.8-14KWH
<b>Battery Rated Voltage</b>	51.2-256V
<b>Dimensions (mm)</b>	227x280x486
<b>Weight (kg)</b>	30-158

## Battery Composition

A battery typically consists of two electrodes, namely, anode and cathode. Cathode forms the positive terminal of the battery and anode is dedicated as the negative terminal.

The cathode of a lithium-ion battery is mainly composed of a lithium compound, while the prime element of the anode is graphite. When the battery is plugged in with an electric supply, the lithium ions tend to move from the cathode to the anode, i.e., from the positive electrode to the negative electrode. This is known as charging the battery.

During the discharge phase of the battery, the movement of the lithium ions gets reversed from anode to cathode, i.e., from negative electrode to positive electrode, and the electrical energy gets transmitted to the attached load.

## Detailed Specifications

Units	1 Unit	2 Units	4 Units	5 Units
<b>Battery Type</b>	LiFePO4			
<b>Typical Capacity (Ah)</b>	55Ah			
<b>Typical Voltage (V)</b>	51.2V	102.4V	204.8V	256V
<b>Connection</b>	1P16S	1P32S	1P64S	1P80S
<b>Voltage Working Range (V)</b>	48–57.6V	86.4–113.6V	172.8–227.2V	216–284V
<b>Working Temperature (°C)</b>	Charge: 0°C–+55°C, Discharge: -20°C–+60°C			
<b>Storage Temperature (°C)</b>	-20°C–+35°C			
<b>Nominal Capacity (kWh)</b>	2.80kWh	5.632kWh	11.264kWh	14.08kWh

<b>Max. Charge Current (A)</b>	35A			
<b>Max. Dis-charge Current (A)</b>	35A			
<b>Cycle Life</b>	>6000			
<b>SOC Accuracy</b>	<8%			
<b>Weight (kg)</b>	30.3kg	75kg	130kg	158kg
<b>Dimensions (mm)</b>	227x280x486	220x480x660	220x480x1100	220x480x1320
<b>IP Grade</b>	IP54			
<b>Transportation SOC</b>	30%			
<b>Cooling</b>	Nature			

## All In One Lithium Battery

Home Power Storage Brick Battery uses the latest HVLL (High Voltage Less Loss) technology to efficiently utilize the electricity stored in lithium batteries by reducing normal consumption in power transmission. The higher voltage, the lower current and the less losses of the internal resistance, so the battery generates less heat at high power than at low power.

## Contact Information

- **Get A Quote:** Available online
- **Online Service:** Email, Skype, WhatsApp