



# AES

## Energy Storage System



**A powerful lithium energy storage system for residential off-grid solar and whole home backup power.**

**48V**

### **PARALLEL POWER**

- Up To 148 kWh (per LYNK)
- Linear Scaling of Charge, Discharge, Peak Capacity

### **SURGE POWER**

- Peak Power for Off-grid Inverter Surge
- Up to 3C Peak Power
- Up to 1C continuous discharge

### **DYNAMIC PERFORMANCE**

- Up to 25% Faster Charging 0% to 100% SoC than lead-acid battery
- Real-Time Optimization of the Charge Rate

### **HIGH CURRENT BMS**

- Field Serviceable BMS and Fuse Protection
- High Peak Surge, Continuous Current
- Sets Charge Voltage, broadcasts SoC and Temperature, Balances Cells

### **CHARGES FASTER**

- 1C Continuous Charge Rate, Regardless of SoC
- 5x Faster than New Lead-Acid
- 2x Faster than C/2 Rated Lithium Batteries

### **LASTS LONGER**

- 10x the Life of Lead-Acid (BCI-06)
- Unlimited Partial SoC Cycles
- 10-Year Warranty and Energy Performance Guarantee

### **RUNS LONGER**

- 2x Runtime of Lead-Acid
- Up to 100% Usable Capacity
- Up to 100% Depth of Discharge

### **HIGH EFFICIENCY**

- Up to 50% More Energy Efficient Than Lead-Acid
- Up to 98% Round Trip Efficiency





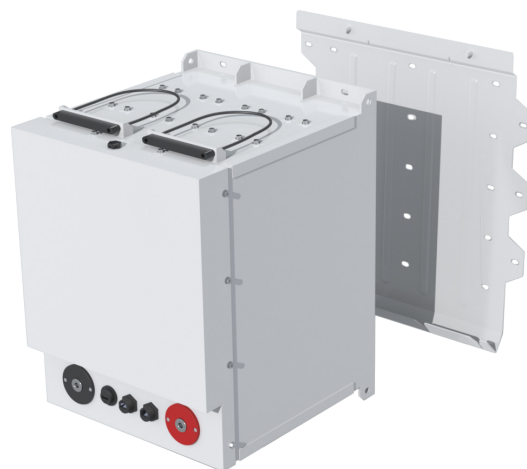
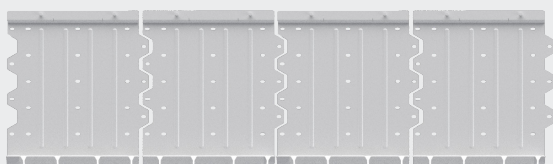
## AES LiFePO<sub>4</sub> ESS is for residential off-grid solar and whole home backup power.

	42-48-6650	44-48-3000
Dimensions	18.5 x 13.7 x 14.7 in	13.0 x 13.3 x 10.1 in
L x W x H	470 x 348 x 373 mm	330 x 339 x 256 mm
Weight	87.0 kg / 192.0 lb	40.0 kg / 88.0 lb
Nominal Energy	7.39 kWh	3.0 kWh
Usable DoD%	90 %	100 %
Rated Capacity (1Hr)	6.65 kWh (130 Ah)	2.9 kWh (57 Ah)
Voltage	51.2 VDC	51.2 VDC
Continuous Charge Current	130 A	57 A
Peak Discharge (3 sec)	300 A RMS	219 A RMS
Warranty	10 years, or 38 MWh	10 years, or 16 MWh
Regulatory	UL 1973, UN 38.3 DOT	UL 1973, UN 38.3 DOT

### WALL MOUNTING BRACKET

Discover AES LiFePO<sub>4</sub> batteries can be installed on the floor or in racking as well as with a wall mount bracket that has been designed for the 48V AES LiFePO<sub>4</sub> batteries.

#### EASY WALL MOUNT CONFIGURATIONS



### LYNK II GATEWAY

#### ADVANCED INTEGRATION – FASTER CHARGING

Unlock the full potential of an AES LiFePO<sub>4</sub> ESS by enabling the BMS to optimize and dynamically manage the charging configurations of hybrid inverter-chargers - Schneider, Victron, Sol-Ark, SMA, Studer. Learn more online.

AES LiFePO<sub>4</sub>: 42-48-6650, 44-48-3000, 44-24-2800



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