



# AES RACKMOUNT

Energy Storage System



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

**48V**

**⚡ PARALLEL POWER**

- Up To 120 kWh (per LYNK)
- Linear Scaling of Charge, Discharge, Peak Capacity

**⚡ SURGE POWER**

- Up to 2.2C Peak Power
- Up to 1C Charge / Discharge (1 Hr)

**🔗 DYNAMIC PERFORMANCE**

- Up to 40% Faster Recharge from 0% to 100% SoC
- Real-Time Optimization of the Charge Rate

**🛡️ HIGH CURRENT BMS**

- High Peak Surge, Continuous Current
- Sets Charge Voltage, broadcasts SoC and Temperature, Balances Cells

**⚡ CHARGES FASTER**

- 1C Max Charge Rate (1 Hr), Regardless of SoC
- 2x Faster than C/2 Rated Lithium Batteries

**🕒 LASTS LONGER**

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

**🕒 RUNS LONGER**

- 2x Runtime of Lead-Acid
- 100% Usable Capacity

**💰 HIGH EFFICIENCY**

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



# AES RACKMOUNT IS FOR RESIDENTIAL OFF-GRID SOLAR AND WHOLE HOME BACKUP POWER.

Battery Module	48-48-5120	48-48-5120-H
Form Factor	19 Inch Rack Mount 3U	19 Inch Rack Mount 3U
L x W x H inch	19.6 x 17.3 x 5.3	19.6 x 17.3 x 5.3
L x W x H mm	497 x 439 x 133.5	497 x 439 x 133.5
Weight	44 kg / 97 lb	44 kg / 97 lb
Nominal Voltage	51.2 V	51.2 V
Nominal Energy	5.12 kWh	5.12 kWh
Usable DoD	100 %	100 %
Rated Capacity (1Hr)	100 Ah	100 Ah
Max Current (1 Hour)	95 A	95 A
BMS Peak Discharge (3 sec)	218 A RMS	218 A RMS
Breaker	Dual 100 A (2 Pole Ganged)	Dual 100 A (2 Pole Ganged)
Terminals	Amphenol SurLok Plus	Amphenol SurLok Plus
Discharge	-17°C to 52°C (1.4°F to 125.6°F)	-17°C to 52°C (1.4°F to 125.6°F)
Charge	4°C to 52°C (39.2°F to 125.6°F)	4°C to 52°C (39.2°F to 125.6°F)
Heating	None	-17°C to 8°C (1.4°F to 46.4°F)
Environment	IP 20	IP 20
Regulatory (PENDING)	UN 38.3 DOT, IEC 62619, UL 1973, UL 9540a, UL9540	UN 38.3 DOT, IEC 62619, UL 1973, UL 9540a, UL9540

## AES Rackmount Components

Part Number	Item	Description
950-0049	Battery Module Combiner	Up to six battery modules with master breaker
950-0053	30 kWh Enclosure	Up to six Battery Modules
950-0050	Quick Stack Rack (3U)	Brackets for stacking Battery Modules
950-0025	LYNK II Gateway	Communication with inverters, three programmable relays



## LYNK II GATEWAY

### ADVANCED INTEGRATION – FASTER CHARGING

Unlock the full potential of **AES RACKMOUNT** 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.](#)

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