



AES RACKMOUNT

Energy Storage System



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

48V

PARALLEL POWER

- Up to 180 kWh with Closed-loop Communication (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 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	UN 38.3 DOT, IEC 62619, UL 1973, UL 9540a	UN 38.3 DOT, IEC 62619, UL 1973, UL 9540a

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, UL 9540 DC ESS Certified
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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