

The 5K batteries could be rack-mounted in **Topstar Liberty Cabinet** for up to 6x batteries in parallel and offers **30kWh** storage capacity.

The Cabinet Kits pre-wired for a very fast installation at customer site, and with the IP 54 rate cabinet could be outdoor installed also save the installation space which is preferred for off-grid applications.

Liberty 30K

| | |
|---------------------------|-------|
| Capacity (kWh) | 30.72 |
| Voltage (V) | 51.2 |
| Max. charge/discharge (A) | 180 |
| DoD (%) | 90 |
| Height (mm) | 1340 |
| Width (mm) | 600 |
| Depth (mm) | 650 |
| Weight (kg) | 430 |



BATTERY MODULE **EOS 5K PACK**

TECHNICAL SPECIFICATION



TopStar EOS 5K Pack is a 48V battery solution ideal for Residential and small Commercial energy storage applications.

The model is adopting by latest **LiFePO₄** technology with intelligent BMS integrated inbuilt blackout protection for energy security, offering a **5kWh** capacity that can be installed in parallel with up to 12 batteries enabling 60 kWh of total storage.

With a **7-years** warranty and up to 6000 long cycle life, the EOS 5K Pack is a flexible, reliable, high-performance battery storage solution.

Low Voltage



Scalable to 60kWh

Safest LiFePO₄ battery

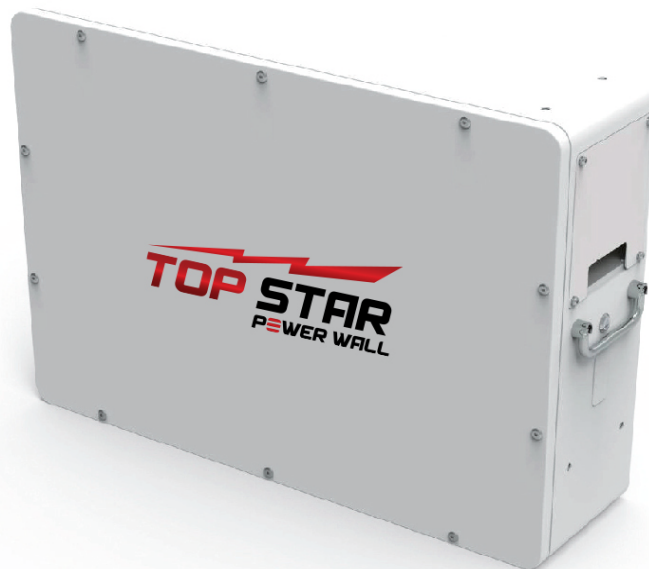


Long lifespan

Easy Installation



**Floor, Wall Mountable
Rack Mountable**



TECHNICAL SPECIFICATIONS

PHYSICAL CHARACTERISTICS

| | |
|--------------|--|
| Height (mm) | 595 |
| Width (mm) | 438 |
| Depth (mm) | 165 |
| Weight (kg) | 60 |
| Installation | Floor-stand, Wall-mounted, Rack-mounted |

ELECTRICAL CHARACTERISTICS

| | |
|--|-----------------|
| Battery type | Lithium LFP |
| Nominal capacity (kWh) | 5.12 |
| Nominal voltage (V) | 51.2 |
| Voltage range (usable) (V) | 40 to 58.4 |
| Max. charge/discharge current (A) | 100 |
| Depth of discharge (DoD) (%) | 90 |
| Internal resistance (mΩ) | ≤60 |
| Cycle life | 6000 |
| Battery pack round-trip efficiency (%) | >95 |
| DC disconnect | Contactors fuse |

BMS

| | |
|-----------------------|--|
| Power consumption | <3 W (work) <100 mW (sleep) |
| Monitoring parameters | System voltage System current Cell voltage Cell temperature |
| Communication | CAN-WiFi, RS 485 |

OPERATING CONDITIONS

| | |
|--|--------------------|
| Operating temperature (°C) | -10 to 50 |
| Operating temperature (recommended) (°C) | 15 to 30 |
| Storage temperature (recommended) (°C) | 15 to 30 |
| Humidity conditions (%) | 5 to 95 |
| Altitude (m) | Max. 2,000 |
| Cooling strategy | Natural convection |

RELIABILITY AND CERTIFICATION

| | |
|------------------------------------|---|
| Certification | Cell: UL1642 Battery module: IEC62619 & UL1973 |
| Hazardous materials classification | Class 9 |
| Transportation | UN38.3 |
| Ingress protection rating | IP 54 |
| System configuration | 1 to 12 parallel |

WARRANTY

| | |
|-------------------------|---------------------------|
| Product and performance | 7-years standard warranty |
|-------------------------|---------------------------|