

2024 ENERGY STORAGE SYSTEMS CATALOGUE



Providing Energy for a World in Motion.

Turn-key solution
for high voltage ESS
applications.



Advanced and interoperable BMS.

with enhanced diagnoses and prognoses functions:

Ensures a reliable, safe, and efficient operation of BESS



Monitors important battery parameters influencing performance & aging of the battery



Optimise battery usage



Increase ROI



Flexibility, reliability & safety.

Sunlight Li.ON ESS Advanced DC Block is a fully integrated modular and turn-key storage solution designed for a diverse set of market applications.



Integrated solution offering modularity for projects of any size



Outdoor rated cabinet designed to operate in the most harsh environments



Integrated solution minimizing commissioning time



Multilevel safety according to NFPA 855:

- fire protection
- heat and gas detection
- emergency shutdown



High availability ensured through redundant CAN network



Design according to IEC and UL standards



High cyclability leads to reduced LCOS



Liquid cooling



Best Cost of Storage



Highest energy density	Liquid cooled 1376.25 kWh in 3592 x 2596 x 2176mm
Extended voltage range	1075.0 V - 1401.6 V (SOC 0% - 100%)
Extra-long degradation curve	Min. 8000 cycles at 0.5 Cp
Top efficiency	RTE >= 97% at 0.5 Cp @STC-Aux max < 5kW
Drop-ship	~13000 kg, ships fully equipped and tested any-where-save on field installation
Smart BMS	3 levels temperature control, failure diagnostics, au-tomatic enumeration, FOTA update, virtual capacity split for optimal combination with PCS

Safety



State of art fire suppression system	Aerosol type F/E A1000 ECO GREEN (UL)
Explosion prevention	Deflagration panels acc. to NFPA 68
Intrusion protection	Lockable, open-door sensor
Serviceability	Door locking in open position
PPU safety functionalities	Short circuit protection, over-and under-voltage protection, over-and under- temperature protection, manual disconnection, string current measurement
DC protection main logic and minimum hardware	Redundant fuse, contactor and disconnecter at string level

Plug & Play



Connectivity	Easy connection to neighboring units and PCS
On site	Fast installation and commissioning. Pre-populated modules

Certifications



Battery	IEC 62619 / IEC 62933-5-2 / UL 1973 / UL 9540
Logistics	UN38.3
Electrical	IEC / UL / CE / FCC
Fire	NFPA 855 / UL9540A

Resilient design



Operational temperature range	-20 to 50°C
Corrosion resistance	C3 (C5M as an option)
Ingress protection	IP54
Fire resistance rating	1h FR
Seismic rating	Zone 4 according to Telcordia GR-63
Wind resistance	Hurricane CAT 3 (50-60 m/s)

Experience
unbeatable value.



One Module, multiple Benefits



An ultra-flexible modular low-voltage energy storage system.



Maximize solar energy

By storing generated power from PV



Back-up power

Ensure uninterrupted energy supply during blackouts



Peak shaving

Trim utility electricity costs during high peak demands



Up to

32 units

In parallel

5-160 kwh



Quick release connectors to minimize installation time



Effortless mounting that saves you time and hassle



Compatible with most of the inverter manufacturers



Get more for less with our cost - effective solution



24/7
EU support

Fully Certified

IEC62619 | UL1973
UN38.3 | CE | UKCA



A modern, two-story house with large glass windows and a wooden balcony. The house is illuminated from within, and the balcony is lit up. The sky is dark with dramatic, glowing clouds and several bright lightning bolts striking down. The house has a contemporary design with clean lines and a mix of materials, including wood and stone. The overall mood is sophisticated and modern.

Power your life with green energy storage.

Enjoy solar energy anytime, even on rainy days, at night, or during blackouts.

Dependable energy, whenever you need it.

SUNLIGHT
POWER IS KNOWLEDGE

Installation Flexibility

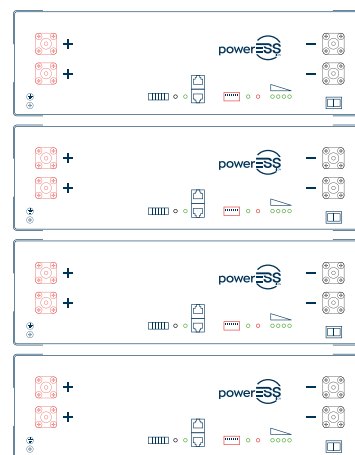
Stack Mounted



Saving more ground space



Stackable up to 4 modules



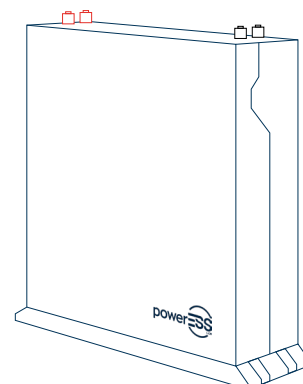
Floor Mounted



Provided kit to mount the battery on the floor



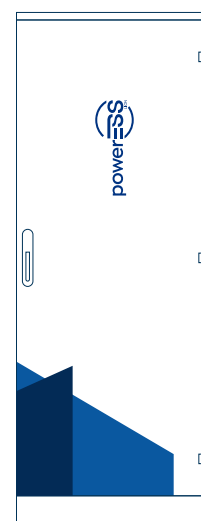
Anti-seismic mount directly to floor & wall



Rack Mounted or Cabinet



Available 42/47U cabinets
IP20 & IP54 variants



51.2V – 100Ah

Product Specifications

Cell Type	Lithium-iron Phosphate (LFP)
Nominal Voltage	51.2 V
Nominal Capacity	100 Ah
Nominal Energy	5.12 kWh
Usable Energy	4.92 kWh
Max. Voltage Range	44.8 – 57.6 V
Charge voltage	56 V
Float Voltage	54.6 V
Recommended Charge Current	50 A
Max. Charge Current	70 A
Recommended Discharge Current	50 A
Max. Discharge Current	100 A
Communication	RS485/CAN
Peak Discharge Current	101~119 A (5 min) 120~149 A (15 sec)
IP Rating	IP20
Cycle Life	≥ 6000 cycles at 90% DoD
Net Weight	46 kg (101.4 lb)
Dimensions (W x H x D)	482 x 133.5 x 460 mm (18.9 x 5.2 x 18.1 inch)
Operating Temperature	-10 to +50oC (14 to 122oF)
Storage Temperature	-10 to +45oC (14 to 113oF)
Relative Humidity	5% ~ 90%, No condensation
Installation Altitude	≤3000 m
Installation Location	Indoor
Certification	IEC62619 UL1973 UN38.3 CE UKCA

Features

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Modularity & Scalability
Up to 32 units in parallel |
5 kWh – 160 kWh configuration
without external controller
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Safe & Reliable
Cobalt free with safe LiFePO4
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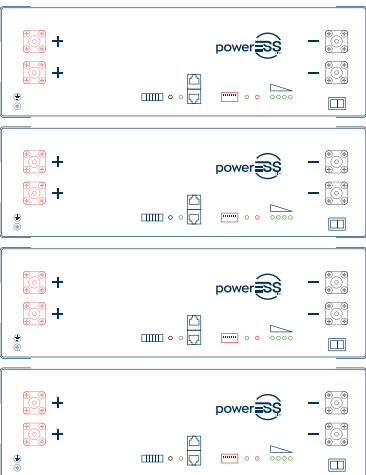
High Performance
≥ 6000 cycles | max. 1C discharge rate
| 96% DoD
- 

Installation Flexibility
Stack, Floor & Rack mounted options
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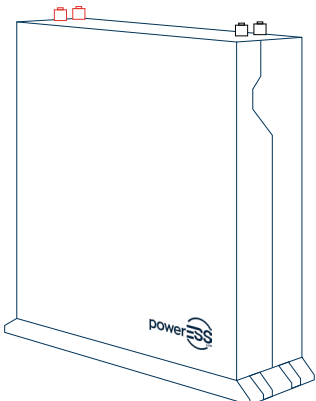
Compatibility
With most of the inverter
manufacturers: Solis, Victron, SMA,
Studer, Goodwe, Deye, Sol-Ark,
Growatt, Sunsynk, SAJ, Luxpower,
Megarevo, MUST, Alpha outback,
Phocos, Voltronic, MPP, TBB, Sofar,
INVT, Sermatec, Schneider

Installation Options

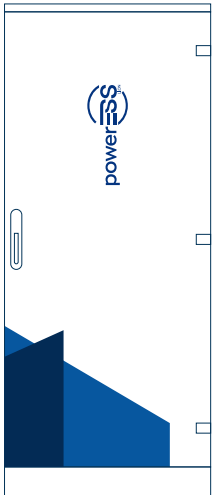
Stack mounted



Floor mounted



Rack mounted







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