

## Turn-key solution for high voltage ESS applications







## **Technical Specifications**

	Highest energy density	Liquid cooled 1376.25 kWh in 3592 x 2596 x 2176mm
Ø <sub>€</sub>	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 $@STC - Aux max < 5kW$
Best Cost of Storage	Drop-ship	~13000 kg, ships fully equipped and tested any- where – save on field installation
	Smart BMS	3 levels temperature control, failure diagnostics, automatic enumeration, FOTA update, virtual capacity split for optimal combination with PCS
	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
Safety	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 disconnector at string level
	Connectivity	Easy connection to neighboring units and PCS
Plug & Play	On site	Fast installation and commissioning. Pre-populated modules
	Battery	IEC 62619 / IEC 62933-5-2 / UL 1973 / UL 9540
Certifications	Logistics	UN38.3
	Electrical	IEC / UL / CE / FCC
	Fire	NFPA 855 / UL9540A
	Operational temperature range	-20 to 50°C
	Corrosion resistance	C3 (C5M as an option)
(9)	Ingress protection	IP54
Resilient	Fire resistance rating	1h FR
design	Seismic rating	Zone 4 according to Telcordia GR-63
	Wind resistance	Hurricane CAT 3 (50-60 m/s)
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## Smart BMS

Advanced and interoperable BMS with enhanced diagnoses and prognoses functions:



- Ensures a reliable, safe, and efficient operation of BESS
- Optimise battery usage
- Monitors important battery parameters influencing performance and aging of the battery
- Increase ROI

## **Key features**

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 with high flexibility, reliability and safety.



Integrated solution offering modularity for projects of any size



Outdoor rated cabinet designed to operate in the most harsh environments



Multilevel safety according to NFPA 855:

- fire protection
- heat and gas detection
- emergency shutdown



Integrated solution minimizing commissioning time



High availability ensured through redundant CAN network



Design according to IEC and UL standards



High cyclability leads to reduced LCOS



Liquid cooling



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