



Battery Storage

סוללות לאגירת אנרגיה



SynergX.co.il



Low-Voltage Battery Storage סוללה לאגירת אנרגיה במתח-נמוך

Our new **IP65** lithium-ion phosphate battery is used to support reliable power for various types of equipment and systems. It is especially suitable for application scenarios of high power, limited installation space and cycle life.

This unique energy storage module includes rechargeable batteries with 5.12kWh capacity,

and allows for up to an impressive 32 modules to be added in parallel.

Our Battery Management System (BMS) can manage and monitor cell information such as battery voltage, current and temperature. The BMS can balance cells charging and discharging to help maximize the life of your battery.



Working temperature range is from -20° to 55°, with excellent discharge performance



Non-toxic and environmentally friendly



Over-discharge, over-charge, over-current and over-high or low temperature protection



Floor stand or wall mounted



LiFePO4 with safety performance and long cycle life



Multiple battery modules can be connected in parallel, increasing capacity and storage power

Length 44.0cm Width 13.5cm Height 62.0cm



Low-Voltage Battery Storage

סוללה לאגירת אנרגיה במתח-נמוך

Main Parameter		SUNSYNK-L5.1
Battery Chemistry		Lithium Ferro Phosphate (LifePO4 or LFP)
Capacity		100 Ah
Scalability		Max. 32 pcs in parallel (163.8kWh)
Nominal Voltage		51.2 V
Operating Voltage		43.2~57.6 V
Energy		5.12 kWh
Usable Energy ^[1]		4.61 kWh
Charge/Discharge Current	Recommend ^[2]	50 A
	Max. ^[2]	100 A
	Peak (2mins,25°)	150 A
Other Parameter		
Recommend Depth of Discharge		90%
Dimension (W/H/D)		440*620*135mm (don't include Circuit Breaker, terminals and hanging boards)
Weight Approximate		50kg
Master LED Indicator		5 LED (SOC 20%~100%)
		3 LED (working, alarming, protecting)
IP Rating of enclosure		IP65
Working Temperature		Charge: 0°C ~ +55°C (optional heating: -20°C~+55°C) Discharge: -20°C ~ +55°C
Storage Temperature		-20°C ~ +35°C
Humidity		5% ~ 95%
Altitude		≤2000m
Installation		Wall Mounted or 19-inch standard cabinet
Communication Port		CAN2.0, RS485
Certification		IEC62619, CE, UN38.3

[1] DC Usable Energy, test conditions: 90% DOD, 0.5C charge & discharge at 25°C. System usable energy may vary due to system configuration parameters.

[2] The current is affected by temperature and SOC.



High-Voltage Storage Battery סוללה לאגירת אנרגיה במתח-גבוה

Sunsynk's advanced High-Voltage Battery uses high-end LifePO4 cells in a vertical configuration to maximize capacity, while utilizing its ergonomic design to save space.

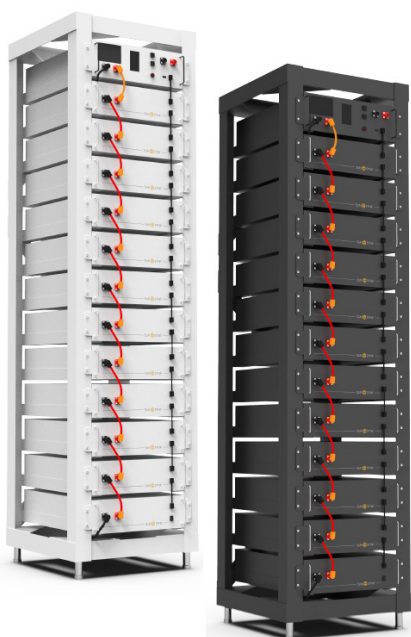
The High Voltage battery storage system is designed to be simple to install and configure.

It provides a reliable backup power supply for supermarkets, banks, schools, farms and small factories to smooth the load curve and achieve peak load transfer. It also improves the stability of

renewable systems and promotes the application of renewable energy.

This modular energy storage system is designed for straightforward integration, exceptional reliability and a long service life. With a particularly wide working temperature range, this system offers outstanding flexibility and scalability.

The complete system supports **12 battery modules in series**, so your total energy capacity can reach an impressive **61.44 kWh** - perfect for any large scale installations.



High Voltage, High Capacity and Maximum Power.



Operating Voltage
538-691V



High cycle life >6000



Calibrated BMS with advanced protection systems



High discharge performance



Incorporated air gaps for cooling



10 Year Warranty

Length 59cm Width 59cm Height 224cm



High-Voltage Storage Battery

סוללה לאגירת אנרגיה במתח-גבוה

Technical Data

Performance	
Battery System Power (kWh)	61.44
Charge/Discharge Rate (Max)	1C
Max Charge / Discharge Current (A)	100
Module Capacity (Ah)	100
Operating Voltage (V)	538~691
Operating Temperature Range	Charge: 0~55 °C / Discharge: -20~55 °C
General Specification	
Battery Cell Chemistry	Lithium Ferro-Phosphate (LiFePO ₄ or LFP)
Dimension (W×D×H mm)	13th level: 589×590×2240
Total Weight (12 Battery Modules, 1 Rack) (kg)	628
Weight of Each Battery Module / Battery Rack (kg)	44 - 85
Operating Altitude	≤2000m
Relative Humidity Range	5%~85% (RH)
Warranty Period	10 years
Enclosure IP Rating	IP20
Certifications	EN/IEC 61000-6, IEC62619, UN38.3

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