ULTRA-5 SLIM 51,2V 100Ah (100A) 5120Wh ENERGY STORAGE

REGULAR RANGE

PRODUCT CODE
6AES51S010

EAN
5904100453160

CATEGORY
Solar inverters and energy storage systems

SUBCATEGORY
ULTRA energy storage systems (LiFePO4, for photovoltaics)

PRODUCT PAGE
voltpolska.pl/produkty/magazyn-energii-slim-ultra-5-512v-100...



ABOUT THE PRODUCT

The ULTRA-5 SLIM 51,2V 100Ah (100A) 5120Wh ENERGY STORAGE system is designed to store energy produced by a photovoltaic installation. It stores excess energy and enables its use at a later time, including in the morning and evening, when energy demand is higher and solar irradiation is limited.

The device uses lithium-iron-phosphate cells LiFePO4 and a BMS management system that monitors voltage, current, temperature and state of charge. The BMS protects the storage system against excessive discharge, overcharge and exposure to extreme temperatures. The declared service life is approximately 6000 cycles while retaining at least 60% of the original capacity.

The modular design enables the parallel connection of storage systems and expansion of the installation as energy demand increases. The compact dimensions and slim enclosure facilitate installation in various interiors. The storage system can be used in single-family homes and commercial facilities such as restaurants, hotels, supermarkets and factories.

The model is compatible with SINUS PRO ULTRA 8000VA and 10000VA solar inverters designed for operation with 48VDC supply voltage. Connecting the storage system to the inverter enables energy storage and conversion of direct current from the storage system into alternating current used to power electrical devices.ə

TECHNICAL SPECIFICATIONS

General Parameters	**Nominal voltage**	51,2V
	Nominal capacity	100Ah
	Energy capacity	5,12 kWh (5120 Wh)
	Cycle life	6000 cycles (0,2 C, 25°C 80% DOD)
	Efficiency	>98%
	Self-discharge (per month)	<3%
	Max. number in a parallel circuit	16 units
	Max. number in a series circuit	Not permitted

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TECHNICAL SPECIFICATIONS - CONTINUED

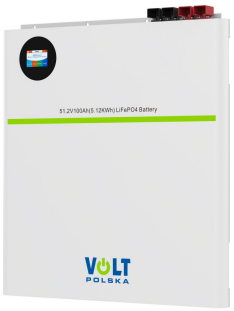
Charging and Discharging	**Recommended charging voltage**	56,0V
	Maximum charging voltage	58,4V
	Rated operating current (charge/discharge)	50A
	Rated usable power	2,56 kW
	Maximum available continuous current	100A
	Maximum available power	5,12 kW
Protections (BMS)	**Charging protection (single cell)**	3,7V
	Overvoltage protection (entire battery)	58,4V
	Low discharge voltage protection (cell)	2,7V
	Low discharge voltage protection (battery)	43,2V
	Short-circuit protection	YES
BMS characteristics	**First charging current protection**	105A (Delay time: 2s)
	Second charging current protection	110A (Delay time: 1s)
	First discharge current protection	110A (Delay time: 1s)
	Second discharge current protection	150A (Delay time: 100ms)
	Excessive charging voltage protection	58,4V (Delay time: 1–2 s)
	Excessive discharge voltage protection	43,2V (Delay time: 1–2 s)
	Temperature protection	PCB temperature < 95°C, return to normal operation < 85°C
	Main communication port	CAN, optionally RS485
Operating Environment	**Charging temperature**	(0 to 55)°C
	Discharge Temperature	(-20 to 60)°C
	Storage Temperature	(-5 to 30)°C

TECHNICAL SPECIFICATIONS - CONTINUED

Physical Parameters	Dimensions (L x W x H)	750 x 800 x 66 mm
	Net Weight	56,5 kg
	Terminal Type	At terminal M8
	Terminal Torque	8,5 Nm
	Housing Material	SPCC
	Individual Package Dimensions	900 x 830 x 150 mm
	Individual Package Weight	60,5 kg

PRODUCT GALLERY





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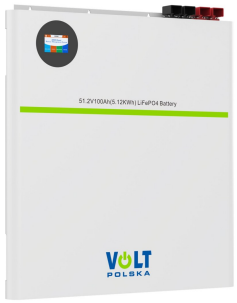
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