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

REGULAR RANGE

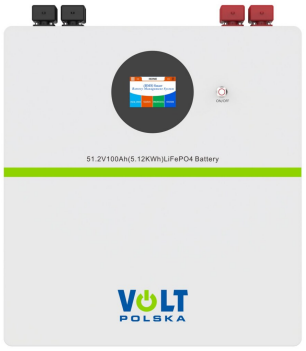
PRODUCT CODE
6AES510010

EAN
5904100451876

CATEGORY
Solar inverters and energy storage systems

SUBCATEGORY
ULTRA energy storage systems (LiFePO4, for photovoltaic systems)

PRODUCT PAGE
voltpolska.pl/produkty/magazyn-energii-ultra-5-512v-100ah-1...



ABOUT THE PRODUCT

ULTRA-5 51,2V 100Ah (100A) 5120Wh ENERGY STORAGE is used to store energy produced by a photovoltaic system and use it later, including during periods of increased energy demand.

The device uses lithium-iron-phosphate cells (LiFePO4), ensuring a long service life and safe operation. The integrated BMS monitors voltage, current, temperature and state of charge, and protects the storage system against over-discharge, overcharge and extreme temperatures.

The modular design allows energy storage systems to be connected in parallel and the installation to be expanded as energy demand increases. ULTRA-5 is compatible with SINUS PRO ULTRA 8000VA and 10000VA solar inverters, intended for installations with a voltage of 48VDC.

The storage system can be used in private and public spaces, including single-family homes, restaurants, hotels, supermarkets and factories. Software link: http://voltpolska.pl/PBmsLVTools_V1.38_20241212.rar

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 parallel circuit	16 pcs.
	Max. number in series circuit	Not permitted

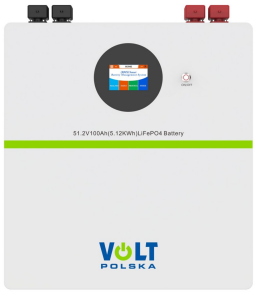
TECHNICAL SPECIFICATIONS - CONTINUED

Charging and Discharging	**Recommended charging voltage**	56,0V
	Maximum charging voltage	58,4V
	Rated operating current (charging/discharging)	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 charge current protection**	105A (Delay time: 2s)
	Second charge current protection	110A (Delay time: 1s)
	First discharge current protection	110A (Delay time: 1s)
	Second discharge current protection	150A (Delay time: 100ms)
	Overcharge voltage protection	58,4V (Delay time: 1–2 s)
	Overdischarge 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	(-20 to 45)°C

TECHNICAL SPECIFICATIONS - CONTINUED

Physical Parameters	Dimensions (L x W x H)	510 x 475 x 160 mm
	Net Weight	48,5 kg
	Terminal Type	Terminal M8
	Terminal Torque	8,5 Nm
	Housing Material	SPCC
	Individual Package Dimensions	550 x 520 x 220 mm
	Individual Package Weight	49,5 kg

PRODUCT GALLERY





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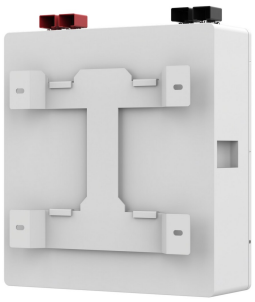
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