ULTRA-5 51,2V 314Ah (175A) 16076Wh ENERGY STORAGE

REGULAR RANGE

PRODUCT CODE
6AES610031

EAN
5904100453719

CATEGORY
Solar inverters and energy storage systems

SUBCATEGORY
ULTRA energy storage systems (LiFePO4, for photovoltaics)

PRODUCT PAGE
voltpolska.pl/produkty/ultra-5-512v-314ah-175a-16076wh-ma...



ABOUT THE PRODUCT

ULTRA-5 51,2V 314Ah (175A) 16076Wh ENERGY STORAGE is used to store energy generated by a photovoltaic installation and use it later during periods of increased demand, including in the morning and evening. It is suitable for use in single-family homes, restaurants, hotels, supermarkets and factories.

The device uses lithium-iron-phosphate cells LiFePO4. The built-in BMS monitors voltage, current, temperature and state of charge and protects the storage system against overdischarge, overcharging and extreme temperatures. The service life is approximately 6000 cycles while retaining at least 60% of the original capacity.

The modular design enables energy storage systems to be connected in parallel and the installation to be expanded. The maximum number of devices in a parallel circuit is 16 units; series connection is not permitted. The storage system is compatible with SINUS PRO ULTRA 8000VA and 10000VA solar inverters designed for power supply at 48VDC. PBmsLVTools software V1.38 is available for communication with the device. Product index: 6AES610031.

TECHNICAL SPECIFICATIONS

General Parameters	**Nominal voltage**	51,2V
	Nominal capacity	314Ah
	Energy capacity	16076Wh
	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

TECHNICAL SPECIFICATIONS - CONTINUED

Charging and Discharging	**Recommended charging voltage**	56,0V
	Maximum charging voltage	58,4V
	Recommended charging current	50A
	Maximum continuous current	175A
Protections (BMS)	**Charging protection (single cell)**	3,7V
	Overvoltage protection (entire battery)	58,4V
	Low-voltage discharge protection (cell)	2,7V
	Low-voltage discharge protection (battery pack)	43,2V
	Short-circuit protection	YES
BMS characteristics	**First charging current protection**	180A (Delay time: 2s)
	Second charging current protection	185A (Delay time: 1s)
	First discharge current protection	180A (Delay time: 2s)
	Second discharge current protection	185A (Delay time: 100ms)
	Overcharge voltage protection	58,4V (Delay time: 1–2s)
	Overdischarge voltage protection	43,2V (Delay time: 1–2s)
	Temperature protection	PCB temperature < 95°C, return to normal operation < 85°C
	Main communication port	CAN, optional RS485
Operating environment	**Charging temperature**	(0 to 55)°C
	Discharge temperature	(-20 to 60)°C
	Storage temperature	(-5 to 30)°C
Physical Parameters	**Dimensions (L x W x H)**	825 x 415 x 235 mm
	Net weight	113 kg
	Terminal type	Plug-in (New versions on terminal M8)
	Terminal torque	8,5 Nm
	Enclosure material	SPCC
	Individual package dimensions	988 x 513 x 424 mm
	Individual package weight	132,5 kg

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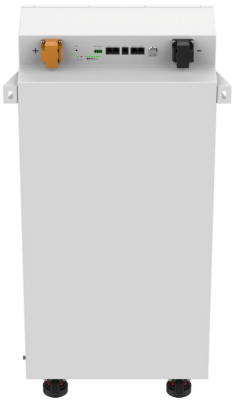
PRODUCT GALLERY













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