ULTRA-5 51,2V 314Ah (200A) 16076Wh ENERGY STORAGE

REGULAR RANGE

PRODUCT CODE
6AES510031

EAN
5904100452842

CATEGORY
Solar inverters and energy storage systems

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

PRODUCT PAGE
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ABOUT THE PRODUCT

ULTRA-5 51,2V 314Ah (200A) 16076Wh ENERGY STORAGE is intended for storing energy generated by a photovoltaic system and using it at a later time, including during periods of increased demand and reduced sunlight.

The device uses lithium-iron-phosphate cells LiFePO4 and a BMS management system that monitors voltage, current, temperature and state of charge, and also protects the storage system against excessive discharge, overcharging and extreme temperatures. The declared service life is 6000 cycles.

The modular design allows a maximum of 16 energy storage systems to be connected in parallel. Series connection is not permitted. The storage system is compatible with SINUS PRO ULTRA 8000VA and 10000VA solar inverters, intended for systems with a voltage of 48VDC.

ULTRA-5 is used in private and public installations, including single-family homes, restaurants, hotels, supermarkets and factories. PBmsLVTools software V1.38 is available for communication with the device: http://voltpolska.pl/PBmsLVTools_V1.38_20241212.rar

TECHNICAL SPECIFICATIONS

General Parameters	**Nominal voltage**	51,2V
	Nominal capacity	314Ah
	Energy capacity	16,08 kWh (16076 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 (charg./discharg.)	50A
	Rated usable power	2,56 kW
	Maximum available continuous current	200A
	Maximum available power	10,24 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**	205A (Delay time: 2s)
	Second charging current protection	210A (Delay time: 1s)
	First discharge current protection	205A (Delay time: 1s)
	Second discharge current protection	210A (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	(-5 to 30)°C

TECHNICAL SPECIFICATIONS - CONTINUED

Physical Parameters	Dimensions (L x W x H)	825 x 415 x 235 mm
	Net Weight	113 kg
	Terminal Type	M8 terminal
	Terminal Torque	8,5 Nm
	Housing Material	SPCC
	Individual Package Dimensions	988 x 513 x 424 mm
	Individual Package Weight	132,5 kg

PRODUCT GALLERY









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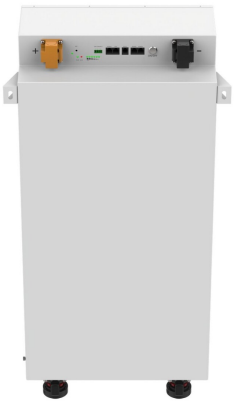
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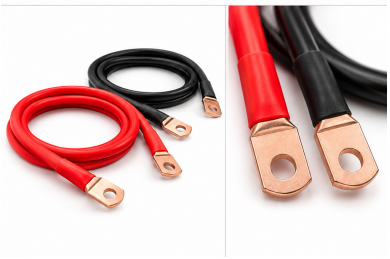
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PRODUCT GALLERY - CONTINUED









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