ULTRA-5 51,2V 560Ah (175A) 28672Wh ENERGY STORAGE

REGULAR RANGE

PRODUCT CODE
6AES610056

EAN
5904100453726

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 560Ah (175A) 28672Wh ENERGY STORAGE is used to store energy generated by a photovoltaic system and use it later, including in the morning and evening, when energy demand is higher.

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

The modular design enables energy storage systems to be connected in parallel and the system to be expanded if energy demand increases. The energy storage system can be used in single-family homes, restaurants, hotels, supermarkets and factories.

The model is compatible with SINUS PRO ULTRA 8000VA and 10000VA solar inverters, which generate the 48VDC voltage required by the BMS. PBmsLVTools V1.38 software is available for communication with the device: http://voltpolska.pl/PBmsLVTools_V1.38_20241212.rar.

TECHNICAL SPECIFICATIONS

General Parameters	**Rated voltage**	51,2V
	Nominal capacity	560Ah
	Energy capacity	28672Wh
	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	Prohibited

TECHNICAL SPECIFICATIONS - CONTINUED

Charging and Discharging	**Recommended charging voltage**	57,6V
	Maximum charging voltage	58,4V
	Recommended charging current	50A
	Maximum continuous current	175A
Protection systems (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	225A (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)**	850 x 870 x 255 mm
	Net weight	225,5 kg
	Terminal type	M8
	Housing material	SPCC
	Individual package dimensions	1025 x 945 x 455 mm
	Individual package weight	257,4 kg

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PRODUCT GALLERY









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