ULTRA-5 51,2V 560Ah (200A) 28672Wh ENERGY STORAGE

REGULAR RANGE

PRODUCT CODE
6AES510056

EAN
5904100453436

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 (200A) 28672Wh ENERGY STORAGE is an energy storage system designed to store energy generated by a photovoltaic installation and use it later during periods of increased demand, including in the morning and evening. The device can be used in single-family homes, restaurants, hotels, supermarkets and factories.

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

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

The energy storage system can store excess electrical energy and make it available to the user at a selected time. Cooperation with the inverter enables conversion of direct current DC from the storage system into alternating current AC used to power electrical devices.

TECHNICAL SPECIFICATIONS

General parameters	**Nominal voltage**	51,2V
	Nominal capacity	560Ah
	Energy capacity	28,67 kWh (28672 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 pcs.
	Max. number in a series circuit	Prohibited

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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.)	150A
	Rated usable power	7,68 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	250A (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, optional 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)	850 x 870 x 255 mm
	Net Weight	225,5 kg
	Terminal Type	On terminal M8
	Terminal Torque	8,5 Nm
	Enclosure Material	SPCC
	Individual Package Dimensions	1025 x 945 x 455 mm
	Individual Package Weight	257,4 kg

PRODUCT GALLERY





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