ULTRA-5 51,2V 280Ah (200A) 14336Wh ENERGY STORAGE

REGULAR RANGE

PRODUCT CODE
6AES510028

EAN
5904100453429

CATEGORY
Solar inverters and energy storage systems

SUBCATEGORY
ULTRA energy storage systems (LiFePO4, for photovoltaics)

PRODUCT PAGE
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ABOUT THE PRODUCT

ULTRA-5 51,2V 280Ah (200A) 14336Wh ENERGY STORAGE is used to store energy generated by a photovoltaic installation for subsequent use, including during periods of increased demand. It is suitable for use in single-family homes, restaurants, hotels, supermarkets and factories.

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

The modular design enables storage systems to be connected in parallel and the installation to be expanded. The model is compatible with SINUS PRO ULTRA 8000VA and 10000VA solar inverters, generating the 48VDC voltage required by the built-in BMS. PBmsLVTools software V1.38 is available for communication with the device.

TECHNICAL SPECIFICATIONS

General Parameters	**Nominal voltage**	51,2V
	Nominal capacity	280Ah
	Energy capacity	14,34 kWh (14336 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)	100A
	Rated usable power	5,12 kW
	Maximum available continuous current	200A
	Maximum available power	10,24 kW
Protections (BMS)	**Protection during charging (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)
	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)	826 x 415 x 238 mm
	Net Weight	110 kg (+/- 3%)
	Terminal Type	On terminal M8
	Terminal Torque	8,5 Nm
	Enclosure Material	SPCC
	Individual Package Dimensions	988 x 503 x 424 mm
	Individual Package Weight	131,5 kg

PRODUCT GALLERY





VOLT POLSKA Sp. z o.o.

ul. Świemirowska 3, 81-877 Sopot
NIP 5851458032 | REGON 221142660
KRS 0000372066

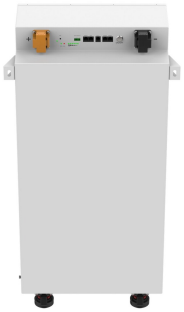
voltpolska.pl
(58) 500-85-62
hurt@voltpolska.pl
pomoc@voltpolska.pl

PRODUCT GALLERY - CONTINUED









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