ULTRA-5 51,2V 200Ah (175A) 10240Wh ENERGY STORAGE

REGULAR RANGE

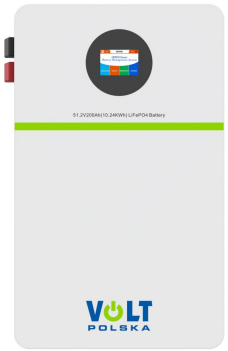
PRODUCT CODE
6AES610020

EAN
5904100453696

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 200Ah (175A) 10240Wh ENERGY STORAGE is designed to store energy generated by a photovoltaic system and use it later during periods of increased demand, including in the morning and evening.

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 energy storage system against over-discharge, 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 system to be expanded. The product can be used in private and public facilities, such as single-family homes, restaurants, hotels, supermarkets and factories.

The energy storage system is compatible with SINUS PRO ULTRA 8000VA and 10000VA solar inverters, designed for operation with a voltage of 48VDC. W connection with an inverter, it forms a system for storing and using electrical energy.

TECHNICAL SPECIFICATIONS

General Parameters	**Nominal voltage**	51,2V
	Nominal capacity	200Ah
	Energy capacity	10240Wh
	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

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

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TECHNICAL SPECIFICATIONS - CONTINUED

Charging and Discharging	**Recommended charging voltage**	57,6V
	Maximum charging voltage	58,5V
	Recommended charging current	20A
	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)	43,2V
	Short-circuit protection	YES
BMS characteristics	**First charging current protection**	180A (Delay time: 20 s)
	Second charging current protection	185A (Delay time: 2–3 s)
	First discharge current protection	180A (Delay time: 10 s)
	Second discharge current protection	185A (Delay time: 100ms)
	Overvoltage charging protection	58,4V (Delay time: 1–2 s)
	Overvoltage discharge 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 55)°C
	Storage temperature	(-20 to 45)°C
Physical Parameters	**Dimensions (L x W x H)**	680 x 412 x 231 mm
	Net weight	84,9 kg (-/+ 5%)
	Terminal type	Plug-in (new versions for M8 terminal)
	Terminal torque	8,5 Nm
	Housing material	SPCC
	Individual package dimensions	760 x 505 x 440 mm
	Individual package weight	103,5 kg

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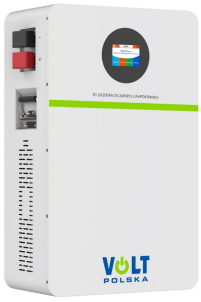
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PRODUCT GALLERY









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