# ULTRA-5 51,2V 280Ah (175A) 14336Wh ENERGY STORAGE

REGULAR RANGE

PRODUCT CODE
**6AES610028**

EAN
**5904100453702**

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

The ULTRA-5 51,2V 280Ah (175A) 14336Wh energy storage system is designed to store energy generated by a photovoltaic installation and use it during periods of increased demand, including in the morning and evening. The device allows surplus energy to be stored and then released at the appropriate time.

The use of lithium-iron-phosphate cells LiFePO4 ensures a long service life and safe operation. The storage system can perform approximately 6000 cycles while retaining at least 60% of its original capacity. The built-in BMS monitors voltage, current, temperature and state of charge, and protects the device against deep discharge, overcharging and extreme temperatures.

The modular design enables the storage systems to be connected in parallel, allowing the installation to be expanded and its capacity increased as energy demand grows. The device can be used in single-family homes and facilities such as restaurants, hotels, supermarkets and factories.

ULTRA-5 51,2V 280Ah (175A) 14336Wh is compatible with SINUS PRO ULTRA 8000VA and 10000VA solar inverters, which generate the 48VDC voltage required by the storage system's BMS. The PBmsLVTools V1.38 software, available at: http://voltpolska.pl/PBmsLVTools_V1.38_20241212.rar, is used to communicate with the device.

## TECHNICAL SPECIFICATIONS

| | | |
|---|---|---|
| **General Parameters** | **Rated voltage** | 51,2V |
| | **Nominal capacity** | 280Ah |
| | **Energy capacity** | 14336Wh |
| | **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** | 58,4V |
| | **Recommended charging current** | 50A |
| | **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: 2s) |
| | **Second charging current protection** | 185A (Delay time: 1s) |
| | **First discharge current protection** | 180A (Delay time: 2s) |
| | **Second discharge current protection** | 185A (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, optionally 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)** | 826 x 415 x 238 mm |
| | **Net weight** | 110 kg (+/- 3%) |
| | **Terminal type** | M8 |
| | **Enclosure material** | SPCC |
| | **Individual package dimensions** | 988 x 503 x 424 mm |
| | **Individual package weight** | 131,5 kg |

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## PRODUCT GALLERY









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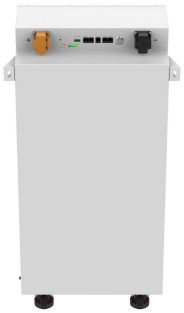
(58) 500-85-62

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