

# ENERGY STORAGE SYSTEMS

## ULTRA-5 51,2V 560Ah 175A

INDEKS: 6AES610056  
EAN: 5904100453726

Energy storage systems ULTRA-5 51,2V 560Ah 175A are designed to store energy produced via photovoltaic system. They can be used in single-family houses and public space e.g. restaurants, hotels, supermarkets, factories.

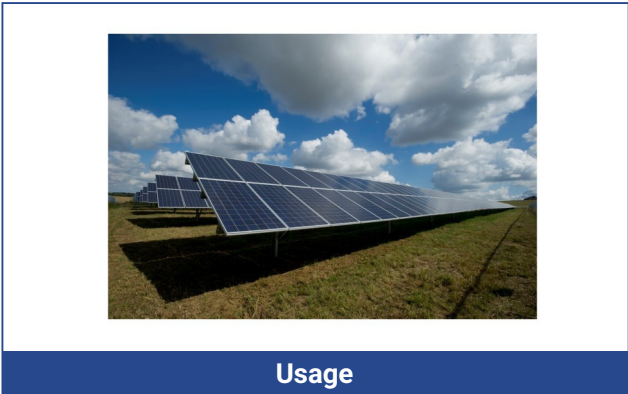
The general features are:

- The use of lithium iron phosphate (LiFePO4) cells ensures long life of the device and its safety.
- Long cycle life times with 6000 cycles. This enables to charge and discharge the device while maintaining 60% of its capacity.
- BMS (Battery Management System) that monitors various parameters such as voltage, current, temperature and state of charge. It also protects the device against excessive discharge, overcharge and extreme temperatures.
- The modular design allows to connect the energy storage systems in parallel, so you can increase the capacity in case of growth energy demand.
- Modern design and small size enables the installation of device in almost every interior.



Main technical data:

|                                 |            |
|---------------------------------|------------|
| Model                           | 51.2V560Ah |
| Nominal voltage                 | 51,2V      |
| Recommend charge voltage        | 57,6V      |
| Nominal capacity                | 560Ah      |
| Max charge voltage              | 58,4V      |
| Energy density                  | 28672Wh    |
| Recommend charge current        | 50A        |
| Max continuous current          | 200A       |
| Terminal type                   | M8         |
| Terminal torque                 | SPCC       |
| Cycle Life (0.2C, 25°C 80% DOD) | 6000 cykli |
| Efficiency                      | >98%       |



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### Main technical data:

|                          |                |
|--------------------------|----------------|
| Discharge temperature    | (-20 do 60)°C  |
| Charge temperature       | (0 do 55)°C    |
| Storage temperature      | (-5 do 30)°C   |
| Self Discharge per Month | <3%            |
| Max in series            | Not allowed    |
| Netto dimensions         | 850x870x255mm  |
| Netto weight             | 225,5kg        |
| Gross dimensions         | 1025x945x455mm |
| Gross weight             | 257,4kg        |



### Certificates

|                                   |                                    |                  |
|-----------------------------------|------------------------------------|------------------|
| <b>BMS characteristic:</b>        |                                    |                  |
| Primary Charging Protection       | Current :205A                      | Delay Time: 2s   |
| Second Charging Protection        | Current :210A                      | Delay Time: 1s   |
| Primary Discharging Protection    | Current :205A                      | Delay Time: 2s   |
| Second Discharging Protection     | Current :250A                      | Delay Time:100ms |
| Over charge Voltage Protection    | Voltage :58.4V                     | Delay Time: 1~2s |
| Over Discharge Voltage Protection | Voltage :43.2V                     | Delay Time: 1~2s |
| Temperature Protection            | Temperature PCB ≥95°C Recover≤85°C |                  |
| Communication Port                | Major RS485, optional for CAN      |                  |



### Usage

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### Constant Current Discharge Data (Amperes 25°):

| Discharge Time | Cut off voltage (43.2V) |
|----------------|-------------------------|
| 1h             | 560A                    |
| 2h             | 280A                    |
| 3h             | 186.6A                  |
| 4h             | 140A                    |
| 5h             | 112A                    |
| 10h            | 56A                     |
| 20h            | 28A                     |



### Constant Power Discharge Data (Watts 25°C):

| Discharge Time | Cut off voltage (43.2V) |
|----------------|-------------------------|
| 1h             | 28672W                  |
| 2h             | 14336W                  |
| 3h             | 9557.3W                 |
| 4h             | 7168W                   |
| 5h             | 5734.4W                 |
| 10h            | 2867.2W                 |
| 20h            | 1433.6W                 |

