

Energy storage systems ULTRA-5 51,2V 280Ah 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	51.2V280Ah
Nominal voltage	51,2V
Recommend charge voltage	57,6V
Nominal capacity	280Ah
Max charge voltage	58,4V
Energy density	14336Wh
Recommend charge current	50A
Max continuous current	200A
Terminal type	M8
Cycle Life (0.2C, 25°C 80% DOD)	6000 cycles
Efficiency	>98%



Certificates



Usage

MAGAZYN ENERGII

ULTRA-5 51,2V 280Ah 175A

INDEKS: 6AES610028

EAN: 5904100453702

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	826x415x238mm
Netto weight	110kg+/-3%
Gross dimensions	988x503x424mm
Gross weight	131,5kg



BMS characteristic:

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	



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Constant Current Discharge Data (Amperes 25°):

Discharge Time	Cut off voltage (43.2V)
1h	/
2h	140A
3h	93.3A
4h	70A
5h	56A
10h	28A
20h	14A

Constant Power Discharge Data (Watts 25°C):

Discharge Time	Cut off voltage (43.2V)
1h	/
2h	7168W
3h	4778.6W
4h	3584W
5h	2867.2W
10h	1433.6W
20h	716.8W

