

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	175A
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



BMS characteristic:

Primary Charging Protection	Current :180A	Delay Time: 2s
Second Charging Protection	Current :185A	Delay Time: 1s
Primary Discharging Protection	Current :180A	Delay Time: 2s
Second Discharging Protection	Current :225A	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	



Certificates



Usage

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Constant Current Discharge Data (Amperes 25°):

Discharge Time	Cut off voltage (43.2V)
1h	\
2h	\
3h	\
4h	140A
5h	112A
10h	56A
20h	28A



Constant Power Discharge Data (Watts 25°C):

Discharge Time	Cut off voltage (43.2V)
1h	\
2h	\
3h	\
4h	7168W
5h	5734.4W
10h	2867.2W
20h	1433.6W

