

ENERGY STORAGE SYSTEMS

ULTRA-5 51,2V 314Ah 175A

INDEKS: 6AES610031
EAN: 5904100453719

Energy storage systems ULTRA-5 51,2V 314Ah 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.

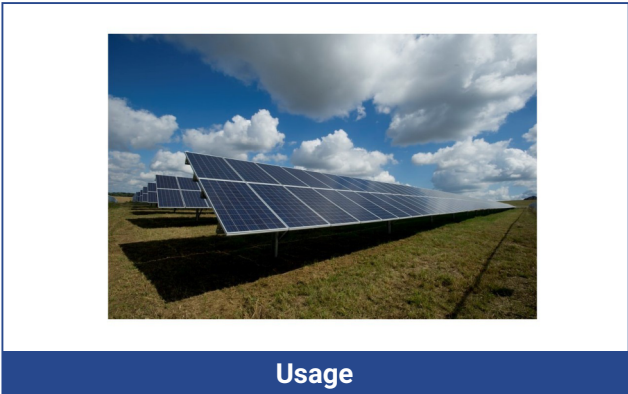
The general features are:

- 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	51.2V314Ah
Nominal voltage	51,2V
Recommend charge voltage	56,0V
Nominal capacity	314Ah
Max charge voltage	58,4V
Energy density	16076Wh
Recommend charge current	50A
Max continuous current	200A
Terminal type	Plug-in
Terminal torque	SPCC
Cycle Life (0.2C, 25°C 80% DOD)	6000 cycles
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	825x415x235mm
Netto weight	113kg
Gross dimensions	988x5132,503x424mm
Gross weight	132,5kg



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 :210A	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	100A
3h	66,7A
4h	50A
5h	40A
10h	20A
20h	10A

Constant Power Discharge Data (Watts 25°C):

Discharge Time	Cut off voltage (43.2V)
1h	/
2h	8038.4W
3h	5359W
4h	4019W
5h	3215W
10h	1608W
20h	804W

