

# ENERGY STORAGE SYSTEMS

## ULTRA-5 51,2V 200Ah 200A

INDEKS: 6AES510020

EAN: 5904100452286

Energy storage systems **ULTRA-5 51,2V 200Ah 200A** 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 (LiFePO<sub>4</sub>) 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	51.2V200
Nominal voltage	51,2V
Recommend charge voltage	57,6V
Nominal capacity	200Ah
Max charge voltage	58,5V
Energy density	10240Wh
Recommend charge current	20A
Max continuous current	150A
Terminal type	Plug-in
Terminal torque	8,5 Nm
Material	SPCC
Cycle Life (0.2C, 25°C 80% DOD)	6000 cycles
Efficiency	>98%



Certificates



Usage

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### Main technical data:

<b>MODEL</b>	<b>51.2V200</b>
Discharge temperature	(-20 do 55)°C
Charge temperature	(0 do 55)°C
Storage temperature	(-20 do 45)°C
Self Discharge per Month	<3%
Max in parallel	16pcs
Max in series	Not allowed
Netto dimensions	680x412x231mm
Netto weight	84,9-/+5%kg
Gross dimensions	760x505x440mm
Gross weight	103,5kg
Multipack dimensions	
Multipack weight	



### BMS characteristic:

Primary Charging Protection	Current :205A	Delay Time: 20s
Second Charging Protection	Current :210A	Delay Time: 2~3s
Primary Discharging Protection	Current :205A	Delay Time: 10s
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 Recovers≤85°C	
Communication Port	Major RS485, optional for CAN	



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

Discharge Time	Cut off voltage (44.8V)
1h	200A
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 (44.8V)
1h	10240W
2h	5120W
3h	3413,3W
4h	2560W
5h	2048W
10h	1024W
20h	512W

