### **ENERGY STORAGE SYSTEMS**

## ULTRA-5 51,2V 100Ah 100A

**Energy storage systems ULTRA-5 51,2V 100Ah 100A** 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 cycels. 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	51.2V100-WM4
Nominal voltage	51,2V
Recommend charge voltage	57,6V
Nominal capacity	100Ah
Max charge voltage	58,5V
Energy density	5120Wh
Recommend charge current	20A
Max continuous current	100A
Terminal type	Plug-in
Terminal torque	8,5 Nm
Material	SPCC
Cycle Life (0.2C, 25°C 80% DOD)	6000 cycles
Efficiency	>98%













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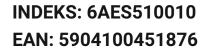
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### Main technical data:

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MODEL	51.2V100-WM4			
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	510x475x160mm			
Netto weight	50kg			
Gross dimensions	550x505x201mm			
Gross weight	52kg			
Multipack dimensions	1120x1120x1105mm			
Multipack weight	25kg			

### **BMS** characteristic:

Primary Charging Protection	Current :105A	Delay Time: 20s
Second Charging Protection	Current :110A	Delay Time: 2~3s
Primary Discharging Protection	Current :110A	Delay Time: 30s
Second Discharging Protection	Current :150A	Delay Time: 2~3s
Over charge Voltage Protection	Voltage :59.2V	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 (44.8V)
1h	100A
2h	50A
3h	33,3A
4h	25A
5h	20A
10h	10A
20h	5A

# ST2-MANUS SHAME SH

**INDEKS: 6AES510010** 

EAN: 5904100451876

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

Discharge Time	Cut off voltage (44.8V)
1h	5120W
2h	2560W
3h	1706,7W
4h	1280W
5h	1024W
10h	512W
20h	256W



