

# ENERGY STORAGE SYSTEMS

## SLIM ULTRA-5 51,2V 100Ah 100A [5120Wh]

INDEKS: 6AES51S010

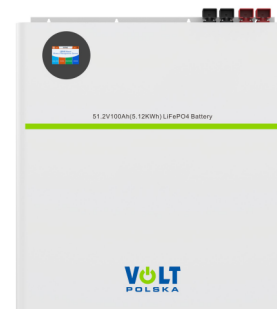
EAN: 5904100453160

Energy storage systems **SLIM 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 (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	SLIM ULTRA-5 51,2V 100Ah 100A
Nominal voltage	51,2V
Recommend charge voltage	57,6V
Nominal capacity	100Ah
Max charge voltage	58,4V
Energy density	28672Wh
Max continuous current	100A
Terminal type	M8
Terminal torque	SPCC
Cycle Life (0.2C, 25°C 80% DOD)	6000 cykli
Efficiency	>98%



### Certificates



### Usage

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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	750x800x66mm
Netto weight	56,5kg
Gross dimensions	900x830x150mm
Gross weight	60,5kg



### BMS characteristic:

Primary Charging Protection	105A	Delay time: 1000ms
Second Charging Protection	110A	Delay time: 500ms
Primary Discharging Protection	110A	Delay time: 5 s±2s
Second Discharging Protection	150A	Delay time: 100ms
Over Charge Voltage Protection	58,4V	Delay time: 500ms
Over Discharge Voltage Protection	43,2V	Delay time: 500ms
Temperature Protection	Temperature PCB < 95°C, Recover < 85°C	
Communication Port	Major RS485, optional CAN	



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

Discharge Time	Cut off voltage (43.2V)
1h	100A
2h	50A
3h	33,4A
4h	25A
5h	20A



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

Discharge Time	Cut off voltage (43.2V)
1h	5120W
2h	2560W
3h	1707W
4h	1280W
5h	1024W

