

ENERGY STORAGE SYSTEMS

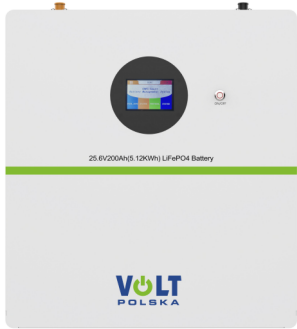
ULTRA-5 25,6V 200Ah 150A

INDEKS: 6AES240020
EAN: 5904100451883

Energy storage systems ULTRA-5 25,6V 200Ah 150A 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.



Certificates



Usage

Main technical data:

Model	RPES-25.6V200AH (150A BMS)-WM2
Nominal voltage	25,6V
Recommend charge voltage	28,8V
Nominal capacity	200Ah
Max charge voltage	29,2V
Energy density	5120Wh
Recommend charge current	50A
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%



VOLT POLSKA SP. Z O.O.
UL. ŚWIEMIROWSKA 3
81-877 SOPOT

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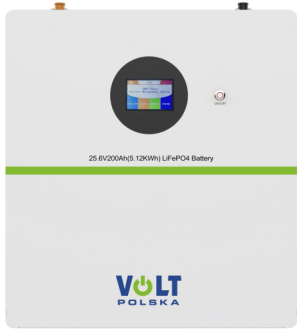
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Main technical data:

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	560x508x226mm
Gross weight	52kg
Multipack dimensions	1120x1120x1105mm
Multipack weight	835kg



Certificates

BMS characteristic:

Primary Charging Protection	Current :155A	Delay Time: 20s
Second Charging Protection	Current :200A	Delay Time: 2~3s
Primary Discharging Protection	Current :155A	Delay Time: 1s
Second Discharging Protection	Current :200A	Delay Time: 100ms
Over Charge Voltage Protection	Voltage :29.2V	Delay Time: 1~2s
Over Discharge Voltage Protection	Voltage :21.6V	Delay Time: 1~2s
Temperature Protection	Temperature PCB ≥95°C Recover≤85°C	
Communication Port	Major RS485, optional for CAN	



Usage



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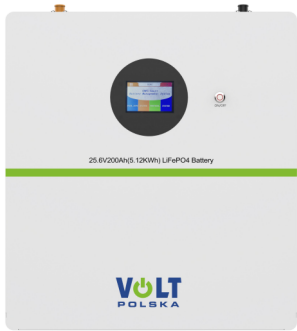
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Constant Current Discharge Data (Amperes 25°):

Discharge Time	Cut off voltage (21,6V)
1h	—
2h	100A
3h	66,67A
4h	50A
5h	40A
10h	20A
20h	10A

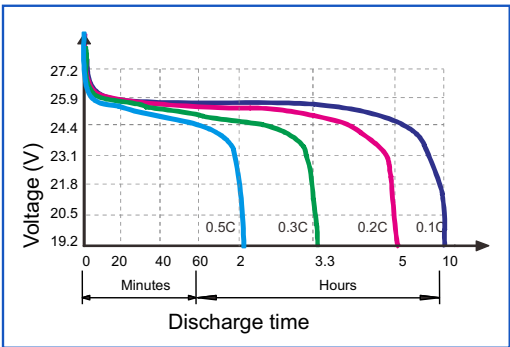


Constant Power Discharge Data (Watts 25°C):

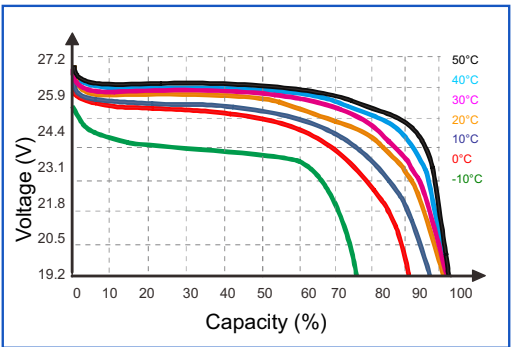
Discharge Time	Cut off voltage (21,6V)
1h	—
2h	2560W
3h	1706,6W
4h	1280W
5h	1024W
10h	512W
20h	256W



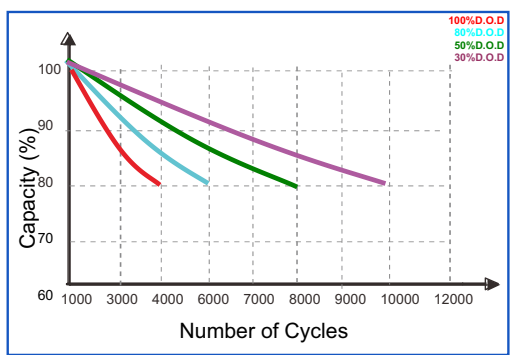
Discharge characteristics (25°C)



Different Temperature Discharge Curve (0.5C)



Different DOD Discharge cycle life Curve 0.2C 25°C



State of Charge Curve (0.5C, 25°C)

