

EN017BN005K051V100AhLFP

5,12 kWh Modular lithium-ion battery

Product information:



Battery module dedicated to energy storage systems is made using the safest lithium-iron-phosphate (LFP) technology. This technology ensures the best balance of quality and price. Compared to conventional battery technologies, lithium-ion technology offers a significantly longer battery lifespan. Maintenance-free battery operation can reduce operating allows for minimizing operating costs.

The ENLFP48100 battery is equipped in highest class battery management system (BMS), which monitors its parameters such as: temperature, voltage and current flow ensuring safety and long battery lifespan.

Functionality

- Modular design – 19" 4U
- Hot plug connector
- Communication CAN/Modbus
- Communication with inverters: SMA, Fronius
- Battery parameter logging

Applications

- Micro-installations for renewable energy sources
- Guaranteed power supply systems
- Energy storage for the energetics and industry

Safety

- Compliance with UN38.3
- Compliance with IEC62619
- Electromagnetic compatibility (EMC) EN 61000-6-1:2007; EN 61000-6-3:2007+A1:2011+AC:2012

System

- Up to 10 modules in parallel operation
- Up to 10 modules in serial operation
- Module equipped with battery a management system (BMS)

Specification:

	Parameter		Unit	Value
Basic module parameters	Nominal Voltage		V	51,2
	Maximum Voltage		V	57,6
	Nominal capacity		Ah	100
	Amount of energy		kWh	5,12
	Maximum discharge current		A	100 (1C)
	Maximum charging current		A	50 (0,5C)
	Energy density		Wh/kg	128
	Number of cycles			≥2000
Working conditions	Operating temperature	charging	°C	0 – 45
		discharging		-20 – 60
	Humidity		%	85
Safety	Disconnecter			Yes
	Circuit breaker			Yes
	Battery management system (BMS)			Yesa
Mechanical parameters	Length		mm	543
	Width		mm	482
	Height			4U
	Weight		kg	40
	Signal connector			RJ45
	Power connector			PHOENIX CONTACT DFK-IPC 16/ 2-STF- 10,16
	Level of protection			IP30

* the manufacturer reserves the right to make changes to the parameters and appearance of the product