

Solaredge Low Voltage Battery Module 4.6kWh BAT-05K48M0B-01/02

Product code: ME.Battery.Solaredge.03



SolarEdge Home Battery 48V Storage is an optimized solution for energy storage designed for SolarEdge Home Hub and Home Wave three-phase inverters for households.

Product variants

Index	Price
Solaredge Low Voltage Battery Module 4.6kWh BAT-05K48M0B-01/02 ME.Battery.Solaredge.03	Product prices only visible after login. If you do not have an account, please register.

Product description

Battery energy storage on the DC side ensures comprehensive system efficiency and increased energy production, which can be effectively stored and utilized for grid-connected installations as well as backup power situations. Seamless integration with the complete SolarEdge Home ecosystem, creating a unified unit covered by warranty, support, and training. All aimed at streamlining logistics and management processes. Enhanced safety features aim to protect stored energy. Scalable solution allowing multiple energy storage modules to be connected to a single inverter to increase capacity up to 23 kWh. Monitoring of all photovoltaic devices, energy storage, electric vehicle charging, and other smart devices, as well as their management using a single application, aiming to optimize energy production, consumption, and backup power.

Plug-and-play installation with automatic configuration via the SetApp application.
Maximum efficiency in both directions based on direct DC coupling - 95.4%.
Maximum number of battery modules per inverter - 5.
Technical data of SolarEdge 4.6kWh BAT-05K48M0B-01:
Available energy (100% depth of discharge) 4600 Wh
Continuous output power (charging/discharging) – for a single module 2825/4096 W
Continuous output power (charging/discharging) – for multiple modules 5000/5000 W
Maximum cycle efficiency >95.4%
10-year warranty
Voltage range 44.8 – 56.5 V DC
Communication connectors RS485 between modules, CAN bus to the inverter
Number of modules per inverter Up to 5 connected in parallel
Battery type Lithium-ion - LFP
Safety (cell level) IEC62619, UN38.3, UL9540A
Safety (module level) UN38.3, IEC62619, IEC63056, IEC62040-1, VDE-AR-E 2510-50
EMC IEC61000-6-1, IEC61000-6-2, IEC61000-6-3, IEC61000-6-4, 61000-3-12
Dimensions (width x height x depth) 540 x 500 x 240 mm
Weight 54.7 kg
Mounting Stand and wall bracket
Operating temperature: discharging/charging From -10 to +50 °C
Storage temperature (12 months between successive charging processes) From -10 to +45 °C
Maximum altitude 2000 m
Enclosure protection IP65 / NEMA 3R – indoor and outdoor (protection against water and dust ingress)
Cooling Free convection
Noise emission (at a distance of 1 m) <25 dBA

SolarEdge is a global leader in smart energy technology. With world-class engineering capabilities and a constant focus on innovation, the company creates intelligent energy solutions that power our lives and shape the future. Their smart inverter solution revolutionizes the way energy is harvested and managed in photovoltaic systems, maximizing electricity production and reducing costs. SolarEdge continues to advance smart energy by offering innovative solutions for photovoltaic installations, storage, electric vehicle charging, UPS, and grid services.