SolarEdge Home Battery 48V For Europe

BAT-05K48



Optimized storage solution for SolarEdge Home Hub and StorEdge three phase inverters

- DC coupled battery featuring comprehensive system efficiency, generating more energy to store and use for on-grid and backup* power applications
- Integrates seamlessly with the SolarEdge Home and SolarEdge Commercial ecosystems, offering a single source for warranty, support, and training, to streamline logistics & operations
- Includes enhanced safety features for battery protection

- Solar, storage, EV charging, and smart devices all monitored and managed by a single app for optimized production, consumption, and backup* power
- Scalable solution that enables stacking multiple battery modules per inverter for increased capacity (up to 23 kWh)
- Simple plug and play installation, with automatic SetApp-based configuration

^{*} Backup applications are available for residential installations only and are subject to local regulations. Additional components and a firmware upgrade may be required. For more information regarding commercial deployments where backup power is not supported, please refer to <u>this application note</u>.



SolarEdge Home Battery 48V **For Europe BAT-05K48**

UNITS BAT-05K48⁽¹⁾ BATTERY MODULE SPECIFICATION Usable Energy (100% depth of discharge) 4600 Continuous Output Power (charge/discharge) for a Single Module 2825 / 4096 Continuous Output Power (charge/discharge) for Multiple Modules 5000 / 5000 Peak Roundtrip Efficiency >95.4 Warranty⁽²⁾ 10 Years Voltage Range 44.8 - 56.5 RS485 between modules, CAN bus to inverter Communication Interfaces Modules per Inverter Up to 5 connected in parallel Li-Ion – LFP Battery Type See Technical Note - Compatibility Matrix for SolarEdge Home Three Phase Inverters Supporting Inverter Models and Batteries STANDARD COMPLIANCE Safety (Cell level) IEC 62619; UN38.3 Safety (Module level) UN38.3; IEC 62619; IEC 63056; IEC 62040-1; VDE-AR-E 2510-50 IEC 61000-6-1; IEC 61000-6-2; IEC 61000-6-3; IEC 61000-6-4; 61000-3-12 Emissions MECHANICAL SPECIFICATIONS Dimensions (W x H x D) 540 x 500 x 240 54.7 Weight Mounting Floor stand and wall attach Operating Temperature (charge/discharge)⁽³⁾⁽⁴⁾ -10 to +50 Storage Temperature (12 months between recharges) -10 to +45 Maximum Altitude 2000 **Enclosure Protection** IP65 / NEMA 3R - indoor and outdoor (water and dust protection) Cooling Natural convection Noise (at 1m distance) dBA < 25

(1) Specification applies to part numbers BAT-05K48M0B-01 and BAT-05K48M0B-02.

(2) For warranty details, please refer to the SolarEdge Home Battery Limited Product Warranty.

(3) Derating applies. At high temperatures, the battery discharge power will derate when the internal temperature of the battery is higher than 40°C. At low temperatures, the battery charge power will derate when the internal temperature of the battery is lower than 15°C. SolarEdge has implemented an internal heating procedure to mitigate the effect of the charge power derating at low temperatures. This heating procedure consumes some of the charge power.

(4) Operating the SolarEdge Home Battery at extreme temperatures for extended durations of time may void the battery warranty coverage. Please see the SolarEdge Home Battery Limited Product Warranty for additional details.

SOLAREDGE HOME BATTERY - ACCESSORIES (PURCHASED SEPARATELY)		
DESCRIPTION	PN	
Accessory residential battery, top cover (1 required per tower)	IAC-RBAT-5KMTOP-01	
Accessory residential battery, cable set battery to SolarEdge Home Hub Inverter - Three Phase (PN SE*K-RWB48)	IAC-RBAT-5KCINV-01	
Accessory residential battery, cable set battery to StorEdge Inverter Three Phase (PN SE*K-RWS)	IAC-RBAT-5KCINV-02	
Accessory residential battery, cable set module to module	IAC-RBAT-5KCBAT-01	
Accessory residential battery, cable set tower to tower	IAC-RBAT-5KCTOW-01	
Accessory residential battery, floor stand (1 required per tower)	IAC-RBAT-5KFSTD-01	
Accessory 10 * Spare connector kit for Battery to Inverter connection, SolarEdge Home Battery 48V	IAC-RBAT-5KCNCT-01	
Accessory 10 * Spare connector kit for Tower to Tower connection, SolarEdge Home Battery 48V	IAC-RBAT-5KCNCT-02	

BATTERY HEIGHT BY CONFIGURATION			
CONFIGURATION	WITH FLOORSTAND	WITHOUT FLOORSTAND	UNITS
1 module with top cover	670	620	
2 modules with top cover	1170	1120	mm
3 modules with top cover	1670	1620	

Wł

W

W

%

Vdc

mm

kg

°C

°C

m