SolarEdge Home Battery 48V

For Europe

BAT-05K48

BATTERIES



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 this application note.

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	BAT-05K48(1)	UNITS
BATTERY MODULE SPECIFICATION		
Usable Energy (100% depth of discharge)	4600 / 4850(2)	Wh
Continuous Output Power (charge/discharge) for a Single Module	2825 / 4096	W
Continuous Output Power (charge/discharge) for Multiple Modules	5000 / 5000	W
Peak Roundtrip Efficiency	>95.4	%
Warranty(3)	10	Years
Voltage Range	44.8 – 56.5	Vdc
Communication Interfaces	RS485 between modules, CAN bus to inverter	
Modules per Inverter	Up to 5 connected in parallel	
Battery Type	Li-Ion – LFP	
Supporting Inverter Models	See Technical Note - Compatibility Matrix for SolarEdge Home Three Phase Inverters 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	
Emissions	IEC 61000-6-1; IEC 61000-6-2; IEC 61000-6-3; IEC 61000-6-4; 61000-3-12	
MECHANICAL SPECIFICATIONS		
Dimensions (W x H x D)	540 x 500 x 240	mm
Weight	54.7	kg
Mounting	Floor stand and wall attach	
Operating Temperature (charge/discharge)(4)(5)	-10 to +50	°C
Storage Temperature (12 months between recharges)	-10 to +45	°C
Maximum Altitude	2000	m
Enclosure Protection	IP65 / NEMA 3R - indoor and outdoor (water and dust protection)	
Cooling	Natural convection	
Noise (at 1m distance)	< 25	dBA

(1) Specification applies to part numbers BAT-05K48M0B-01 and BAT-05K48M0B-02.
(2) As of January 2025, available for batteries connected to new installations of SolarEdge Home Hub Three Phase inverters. Valid for new and existing sites.
(3) For warranty details, please refer to the SolarEdge Home Battery Limited Product Warranty.
(4) 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.
(5) 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	mm
2 modules with top cover	1170	1120	
3 modules with top cover	1670	1620	

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