

# 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 application
- Solar, storage, EV charging, and smart devices all monitored and managed by a single app for optimized production, consumption, and backup\* power
- Integrates seamlessly with the complete SolarEdge Home ecosystem, offering a single source for warranty, support and training, to streamline logistics & operations
- Scalable solution that enables to stack up multiple battery modules per inverter for increased capacity (up to 23 kWh)
- Includes enhanced safety features for battery protection
- Simple plug and play installation, with automatic SetApp-based configuration

\* Backup applications are subject to local regulation and may require additional components and firmware upgrade

# SolarEdge Home Battery 48V

## For Europe

### BAT-05K48

|                                                                   | BAT-05K48 <sup>(1)</sup>                                                                                         | UNITS |
|-------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|-------|
| <b>BATTERY MODULE SPECIFICATION</b>                               |                                                                                                                  |       |
| Usable Energy (100% depth of discharge)                           | 4600                                                                                                             | 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 <sup>(2)</sup>                                           | 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 <a href="#">Technical Note - Compatibility Matrix for SolarEdge Home Three Phase Inverters and Batteries</a> |       |
| <b>STANDARD COMPLIANCE</b>                                        |                                                                                                                  |       |
| Safety (Cell level)                                               | IEC62619; UN38.3                                                                                                 |       |
| Safety (Module level)                                             | UN38.3; IEC62619; IEC63056; IEC62040-1; VDE-AR-E 2510-50 <sup>(3)</sup>                                          |       |
| Emissions                                                         | IEC61000-6-1; IEC61000-6-2; IEC61000-6-3; IEC61000-6-4; 61000-3-12                                               |       |
| <b>MECHANICAL SPECIFICATIONS</b>                                  |                                                                                                                  |       |
| Dimensions (W x H x D)                                            | 540 x 500 x 240                                                                                                  | mm    |
| Weight                                                            | 54.7                                                                                                             | kg    |
| Mounting                                                          | Floor stand and wall attach                                                                                      |       |
| Operating Temperature <sup>(4)</sup> Charge/Discharge             | -10 to +50                                                                                                       | °C    |
| Storage Temperature (12 months between recharge)                  | -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 number BAT-05K48M0B-01 and BAT-05K48M0B-02.

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

(3) Designed to meet VDE-AR-E-2510-50.

(4) Derating applies. Please note that 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.

| SOLAREEDGE 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               |       |