

SolarEdge Home Battery

Low Voltage, for Europe

BAT-05K48



Optimized storage solution for SolarEdge Home Hub and Wave Inverters - Three Phase

- DC coupled battery featuring comprehensive system efficiency, generating more energy to store and use for on-grid and backup* power application
- Integrates seamlessly with the complete SolarEdge Home ecosystem, offering a single source for warranty, support and training, to streamlined logistics & operations
- Includes enhanced safety features for battery protection
- Scalable solution that enables to stack up multiple battery modules per inverter for increased capacity (up to 23 kWh)
- Solar, storage, EV charging, and smart devices all monitored and managed by a single app for optimized production, consumption, and backup* power
- 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

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| BAT-05K48 ⁽¹⁾ | | UNITS |
|---|---|-------|
| BATTERY MODULE SPECIFICATION | | |
| 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 | >94.5 | % |
| Warranty ⁽²⁾ | 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 | |
| Supporting Inverter models | https://www.solaredge.com/sites/default/files/se-compatibility-matrix-for-solaredge-three-phase-inverters-and-batteries-application-note-eng.pdf | |
| STANDARD COMPLIANCE | | |
| Safety (cell level) | IEC62619, UN38.3, UL9540A | |
| Safety (Module level) | UN38.3, IEC62619, IEC63056, IEC62040-1, VDE-AR-E 2510-50 ⁽³⁾ | |
| Emissions | IEC61000-6-1, IEC61000-6-2, IEC61000-6-3, IEC61000-6-4, 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 ⁽⁴⁾ Discharge/Charge | -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 PN "BAT-05K48S0B-01"

(2) For warranty details, please refer to the SolarEdge Home Battery Limited 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 Hub inverter (PN SE*K-RWB48) | IAC-RBAT-5KCINV-01 |
| Accessory residential battery, cable set battery to Wave inverter (PN SE*K-RWS) | IAC-RBAT-5KCINV-02 |
| Accessory residential battery, cable set battery to battery | IAC-RBAT-5KCBAT-01 |
| Accessory residential battery, cable set tower to tower | IAC-RBAT-5KCTOW-01 |
| Floor stand (optional) | IAC-RBAT-5KFSTD-01 |
| Accessory 10 * Spare connector kit for "Battery to Inverter" connection, SolarEdge Home Battery, Low Voltage | IAC-RBAT-5KCNCT-01 |
| Accessory 10 * Spare connector kit for "Tower to Tower" connection, SolarEdge Home Battery, Low Voltage | IAC-RBAT-5KCNCT-02 |