

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

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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	See Technical Note - Compatibility Matrix for SolarEdge Home Three Phase Inverters and Batteries	
STANDARD COMPLIANCE		
Safety (Cell level)	IEC62619; UN38.3	
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⁾ 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 PN 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 inverter (PN SE*K-RWB48)	IAC-RBAT-5KCNV-01
Accessory residential battery, cable set battery to StorEdge inverter (PN SE*K-RWS)	IAC-RBAT-5KCNV-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