

SolarEdge Home Battery

48V (W)

BAT-05K48



Optimized storage solution for SolarEdge Home Hub Inverters – Three Phase

- 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 ecosystem, 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 19.4 kWh)
- Simple plug and play installation, no cables required between battery modules using Quick Connect, 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](#).

/ SolarEdge Home Battery 48V (W) BAT-05K48

	BAT-05K48 ⁽¹⁾	UNITS
BATTERY MODULE SPECIFICATION		
Usable Energy (100% depth of discharge)	4850	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 ⁽²⁾	10	Years
Voltage Range	44.8 – 57.6	Vdc
Communication Interfaces	RS485 between modules, CAN bus to inverter	
Modules per Inverter	Up to 4 battery modules	
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; UL9540A	
Safety (Module level)	UN38.3; IEC 62619; IEC 63056; IEC 62040-1	
Emissions	IEC 61000-6-1; IEC 61000-6-2; IEC 61000-6-3; IEC 61000-6-4; 61000-3-12	
MECHANICAL SPECIFICATIONS		
Allowed Configuration	Maximum single battery tower per inverter, up to 4 modules in the tower	
Dimensions (W x H x D)	725 x 370 x 245	mm
Weight	50.5	kg
Mounting	Mandatory floor stand	
Operating Temperature (charge/discharge) ⁽³⁾⁽⁴⁾	-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-05K48M0W-01. Approved for installation in only in Germany and Austria.

(2) For warranty details, see 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 48V (W) at extreme temperatures for extended durations of time may void the battery warranty coverage. See the [SolarEdge Home Battery Limited Product Warranty](#) for additional details.

SOLAREDGE HOME BATTERY 48V (W) - ACCESSORIES (PURCHASED SEPARATELY)		
DESCRIPTION	PN	
Accessory kit, SolarEdge Home Battery 48V (W), floor stand and top cover (1 required per battery tower)	IAC-RBAT-5KWACC-01	
Accessory Cable Kit, Cable set Battery to SolarEdge Home Battery 48V or 48V (W) and SolarEdge Home Hub Inverters - Three Phase (PN SE*K-RWB48)	IAC-RBAT-5KCINV-01	
Accessory 10 x Spare connector kit for Battery to Inverter connection, SolarEdge Home Battery 48V or 48V (W)	IAC-RBAT-5KCNCT-01	

CONFIGURATION	WITH FLOORSTAND AND TOP COVER	UNITS
1 module with floor stand and top cover	625.5	mm
2 modules with floor stand and top cover	995.5	
3 modules with floor stand and top cover	1365.5	
4 modules with floor stand and top cover	1735.5	