

SolarEdge Home Battery 400V

USA Domestic Content Eligible*

For North America

BAT-10K1P



BATTERIES



SolarEdge's USA-manufactured offering optimized for SolarEdge Home Hub Inverters

- / Eligible for domestic content: SolarEdge USA-manufactured batteries* are intended to be eligible for the enhanced federal income tax credit for domestic content
- / DC coupled battery featuring outstanding overall system efficiency, generating more energy to store and use for on-grid and backup** power applications
- / Integrates seamlessly with the complete SolarEdge Home ecosystem using SolarEdge Home Network, offering a single source for warranty, support, and training, to streamline logistics and operations
- / Solar, storage, EV charging, and smart devices all monitored and managed by a single app to an optimized production, consumption, and backup* power
- / Includes multiple safety features:
 - / Continuous protection through measurement and monitoring, using a mix of software and hardware measures
 - / Rapid Shutdown and SafeDC™
 - / Qualified by UL9540A, the latest and most stringent UL fire safety standard
 - / Featuring ThermoShield™ technology: a cell-level protection mechanism
- / Simple plug and play installation, with automatic SetApp-based configuration
- / Flexible installation - wall or floor mount, indoor or outdoor
- / Wireless communication to the inverter, reducing wiring, labor, and installation

* Manufactured by SolarEdge with the intent to be eligible for inclusion under the elective safe harbor in calculating the Domestic Content Percentage under the "Distributed BESS" category (under IRS Notice 2024-41 and 2025-08). Batteries with part number **UBAT-10K1P50B-03**, under 2024-41 the Packaging, the Thermal Management System, and the Battery Management System, and under 2025-08 all the Battery Container/Housing MPC's are domestically produced and manufactured to meet the requirements of eligibility to be considered for the ITC domestic content bonus adder. SolarEdge does not provide tax and/or legal advice. You should consult with your own legal and/or tax advisor(s) regarding the eligibility of your project for the ITC or PTC, including the 10% domestic content bonus, to determine how the applicable rules apply to your particular project. The forward-looking statements in this datasheet are accurate as of the date herein and are subject to change. For more information, please contact your local SolarEdge sales representative.

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

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UBAT-10K1PS0B-03		
BATTERY SPECIFICATION		
Usable Energy (100% depth of discharge)	9700	Wh
Continuous Output Power ⁽¹⁾	5000	W
Peak Output Power (for 10 seconds)	7500	W
Peak Roundtrip Efficiency	94.5	%
Warranty ⁽²⁾	10	Years
Voltage Range	350 – 450	Vdc
Max Continuous Output Current	14.3	A
Max Short Circuit Current / Duration	1k/10	Adc/msec
ADDITIONAL FEATURES		
Compatible Inverters ⁽³⁾	SolarEdge Home Hub Inverters	
Batteries per Inverter ⁽⁴⁾	Up to 3	
Communication Interfaces	Wireless ⁽⁵⁾ and RS485	
STANDARD COMPLIANCE		
Certification	Cell	UL 1642
	Battery	UL 1973, UL 9540A, UL 9540, UN 38.3
Emissions		FCC Part 15 Class B
MECHANICAL SPECIFICATIONS		
Dimensions (W x H x D)	31.1 x 46.4 x 9.84 / 790 x 1179 x 250	in / mm
Weight	262 / 119	lb / kg
Mounting	Floor ⁽⁶⁾ or wall mount ⁽⁷⁾	
Ambient Operating Temperature Range ⁽⁸⁾	-4 to +122 / -20 to +50	°F / °C
Storage Temperature (limited period) ⁽⁹⁾	-22 to +140 / -30 to +60	°F / °C
Storage Temperature (Up to 12 months since shipment date)	+14 to +86 / -10 to +30	°F / °C
Enclosure Protection	IP55 / NEMA 3R - indoor and outdoor ⁽¹⁰⁾ (water and dust protection)	
Maximum Altitude	6562 / 2000	ft / m
Cooling	Natural convection	
Noise (at 1m distance)	<25	dBA

1. Charge/discharge power may differ according to temperature range.
2. For warranty details, see the [SolarEdge Home Battery](#) limited product warranty.
3. For compatible inverter information, see the [SolarEdge Home Hub Inverter for North America](#) datasheet and the [SolarEdge Home Hub Inverter for North America Assembled in North America](#) datasheet.
4. Installations with multiple SolarEdge Home Batteries connected to a single inverter require a pair of SolarEdge branch connectors (DC + and DC -) per battery, excluding the last battery. The branch connectors should be purchased separately. For more details, see the [Connecting the Home Hub Inverter to Multiple Home Batteries](#) technical note.
5. For additional details, see the [SolarEdge Home Network Plug-In](#) datasheet.
6. The floor stand is purchased separately. One floor stand is required per SolarEdge Home Battery. See the [SolarEdge Home Battery \(High Voltage\) Floor Mount Stand](#) assembly guide and the Accessories P/N table below.
7. Wall mount installation requires handles that should be purchased separately. See the Accessories P/N table below.
8. The SolarEdge Home Battery 400V is to be installed in a location where the ambient temperature falls between -4°F to +122°F. The maximum allowed duration below 32°F is limited to 30% of the days within any rolling 12-month period.
9. For details, see the [SolarEdge Home Battery 400V Transportation and Storage Guidelines](#) application note.
10. Installation in direct sunlight is allowed only when the ambient temperature is within the Ambient Operating Temperature Range.

SolarEdge Home Battery – Accessories (purchased separately)	
ACCESSORY	P/N
Floor stand	IAC-RBAT-FLRSTD-01
Branch connector set (includes 10 pairs of DC + and DC - connectors) Required for installations with multiple SolarEdge Home Battery batteries with a single inverter	IAC-RBAT-USYCBL-01
Handles	IAC-RBAT-HANDLE-01

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SolarEdge Home Battery Dimensions and Placement

