

SolarEdge Home Battery for Australia

BAT-10K1P



BATTERIES

Optimised for SolarEdge Energy Hub and SolarEdge Genesis Inverters

- Maximised system performance, gaining more energy to store and use for on-grid and backup power applications
- Integrates with the complete SolarEdge residential offering, providing a single point of contact for warranty, support, training, and simplified logistics & operations
- DC coupled battery featuring superior overall system efficiency
- Scalable solution for increased power and capacity with multiple SolarEdge inverters and batteries
- Solar, storage, EV charging, and smart devices all monitored and managed by a single app to optimise solar production, consumption, and backup* power
- Wireless communication to the inverter, reducing wiring, labour, and installation faults
- Simple plug and play installation, with automatic SetApp-based configuration
- Includes multiple safety features for battery protection

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

SolarEdge Home Battery

High Voltage, for Australia

BAT-10K1P

BAT-10K1PSOB-01

OUTPUT

Usable Energy (100% depth of discharge)	9700	Wh
Continuous Output Power	5000	W
Peak Output Power in Backup (for 10 seconds)	7500	W
Peak Roundtrip Efficiency	>94.5	%
Warranty ⁽¹⁾	10	Years
Voltage Range	350-450	Vdc
Isc	1	kA

ADDITIONAL FEATURES

Compatible Inverters	SolarEdge Genesis Single Phase Inverter, SolarEdge Energy Hub Single Phase Inverter
Batteries Per Inverter	Up to 3 ⁽²⁾
Communication Interfaces	Wireless and RS485 ⁽³⁾

STANDARD COMPLIANCE

Certification	Cell	IEC 62619, UL1642
	Battery	IEC 62619, UN38.3, UL1973, UL9540
Emissions	IEC61000-6-1, IEC61000-6-2, IEC61000-6-3	

INSTALLATION SPECIFICATIONS

Dimensions (W x H x D)	790 x 1179 x 250	mm
Weight	121	kg
Mounting	Floor ⁽⁴⁾ or wall mount ⁽⁵⁾	
Operating Temperature ⁽⁶⁾	-10 to +50	°C
Storage Temperature (more than 3 months)	-10 to +30	°C
Storage Temperature (less than 3 months)	-30 to +60	°C
Enclosure Protection	IP55 - indoor and outdoor	
Maximum Altitude	2000	m
Cooling	Natural convection	
Noise at 1m Distance	<25	dBA

(1) For warranty details, see the SolarEdge Home Battery Limited Warranty.

(2) Installations with multiple SolarEdge Home Batteries require a pair of branch connectors (DC + and DC -) per battery excluding the last battery. The branch connectors should be purchased separately.

(3) The SolarEdge Home Battery is designed for use with SolarEdge Home Network for wireless communication. The inverter might require a matching SolarEdge Home Network Plug-in (more details [here](#)). Using RS485 could reduce the usable energy to 9500Wh.

(4) The floor stand is purchased separately. One floor stand is required per SolarEdge Home Battery. See the Accessories' P/N table below.

(5) Wall mount installation requires handles that should be purchased separately. See the Accessories' PN table below.

(6) Please note that operating the SolarEdge Home Battery at extreme temperatures for extended durations of time may void the SolarEdge Home Battery's warranty coverage. See the SolarEdge Home Battery Limited Warranty.

SolarEdge Home Battery – Accessories (purchased separately)

Accessory	P/N
Floor stand	IAC-RBAT-FLRSTD-01
Handles	IAC-RBAT-HANDLE-01
Branch connector (required for installation with multiple SolarEdge Home Batteries)	IAC-RBAT-RWYCBL-01
SolarEdge Home Network Plug-in	SolarEdge Home Network datasheet

Backup Interface

For Australia

BI-AU1P



HOME BACKUP

Backup Interface for Flexible Backup

- Automatically provides backup power to home loads in the event of grid interruption
- Full flexibility in which loads to backup - the entire home or selected loads
- Scalable solution to support higher power & higher capacity^(*)
- Seamless integration with the Energy Hub Inverter with Prism Technology to manage and monitor both PV generation and energy storage
- Generator connection support*

* Requires supporting inverter firmware

/ Backup Interface For Australia

BI-AU1P

BI-NAUGN1P		
INPUT FROM GRID		
AC Current Input	100	A
AC Output Voltage (Nominal)	230	Vac
AC Output Voltage Range	160 - 264	Vac
AC Frequency (Nominal)	50	Hz
AC Frequency Range	45 - 55	Hz
Microgrid Interconnection Device Rated Current	100	A
Grid Disconnection Switchover Time	<3	sec
OUTPUT TO MAIN DISTRIBUTION PANEL		
Maximum AC Current Output	100	A
AC Frequency (Nominal)	50	Hz
AC Frequency Range	45 - 55	Hz
Maximum Inverters AC Current Output in Backup Operation	100	A
AC L-N Output Voltage in Backup (Nominal)	230	V
AC L-N Output Voltage Range in Backup	160 - 264	V
AC Frequency Range in Backup	45 - 55	Hz
Overvoltage Category	III	
GENERATOR⁽¹⁾		
Maximum Rated AC Power	17250	W
Maximum Continuous Input Current	75	Aac
Dry Contact Switch Voltage Rating	250/30	Vac/Vdc
Dry Contact Switch Current Rating	5	A
2-wire Start Switch	Yes	
ADDITIONAL FEATURES		
Installation Type	Suitable for use as service equipment	
Number of Communication Inputs	1	
Communication	RS485	
Energy Meter (for Import/Export)	1.25% accuracy	
Manual Control Over Microgrid Interconnection Device	Yes	

(1) Requires supporting inverter firmware

/ Backup Interface For Australia

BI-AU1P

BI-NAUGN1P		
STANDARD COMPLIANCE		
Safety	IEC/EN 62109-1	
Emissions	AS/NZS CISPR 32	
INSTALLATION SPECIFICATIONS		
Supported Inverters	StorEdge single phase inverter, Single phase Energy Hub inverter with Prism technology	
AC From Grid Conductor Cable Area	6 - 16	mm ²
Grid / Loads Conduit Size	25 - 32	mm
AC Conductor Cable Area	4 - 10	mm ²
Generator Conductor Cable Area Range	4 - 16	mm ²
Generator Conduit Size	25-32	mm
Communication Cable Conductor Area	0.02 – 1.5	mm ²
Communication Gland Size	5-15	mm
Weight	<4	kg
Noise	< 50	dBA
Operating Temperature Range	-40 to +50	°C
Relative Humidity Range	0-100	%
Protection Rating	IP65	
Dimensions (H x W x D)	390 x 238 x 147	mm
Environmental Category	Outdoor	
Pollution degree	3	
Maximum Altitude Rating	2000	