



SUNNY BOY STORAGE AUTOMATIC BACKUP UNIT

SBS-ABU-200-US-10



IMAGE FOR ILLUSTRATIVE PURPOSES ONLY



Versatile

- Suitable for many use cases including whole house backup or connected to a protected loads panel
- Allows for direct connection of PV and Sunny Boy Storage inverters

Robust

- 200 Amp rated bus allows for large panels to be connected to it
- Up to 5 kVA of unbalanced load
- Outdoor rated for harsh environments

Simple Installation

- Pre-wired and tested to make for easy commissioning
- Plug-n-play installation with Sunny Boy Storage inverter
- Easy setup and commissioning via Sunny Boy Storage webUI

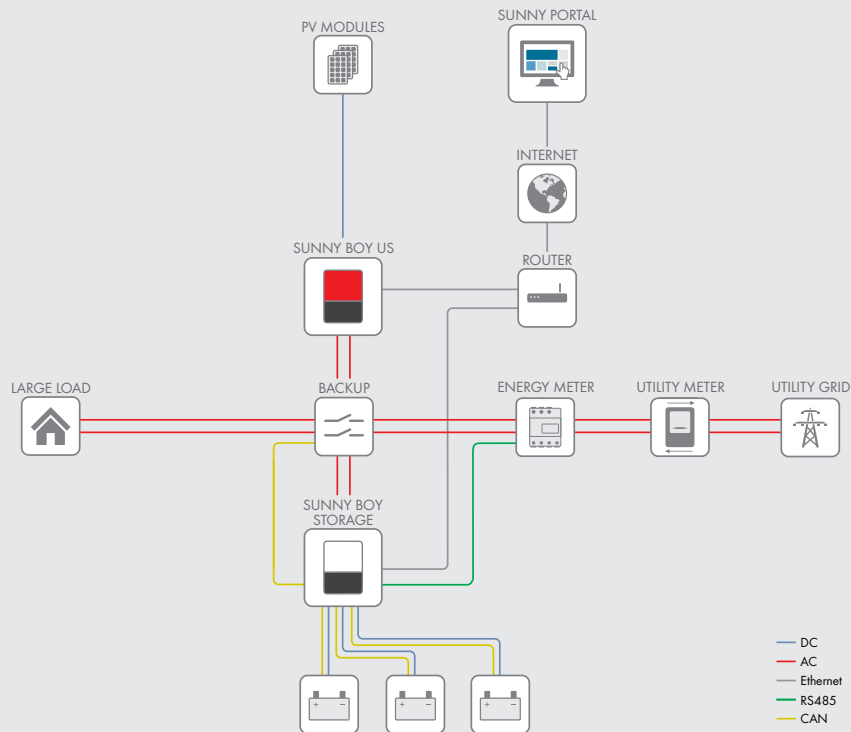
Cost-effective

- AC coupled architecture allows for new PV or retrofit installations
- Up to three high-voltage batteries can be connected in a single SMA residential storage solution

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Additional peace of mind with SMA residential storage solutions

The new SMA Automatic Backup Unit is an automatic transfer switch designed specifically for use with the SMA Sunny Boy Storage inverter family. In the event of a grid failure, the automatic transfer switch disconnects the PV system, loads and the Sunny Boy Storage from the utility grid and creates a battery-backup grid. The included Backup Unit Controller coordinates grid disconnection and reconnection to ensure minimal downtime while also allowing for up to 5 kVA of unbalanced loads. When paired with SMA Sunny Boy inverters, the Sunny Boy Storage curtails PV power production to match load in the event the battery is full to maximize use of solar production. The Automatic Backup Unit can be installed in a wide variety of installation types which makes for a versatile tool.



Technical data

SUNNY BOY STORAGE AUTOMATIC BACKUP UNIT

Connection to utility grid and household distribution

Rated grid voltage	240 V
Output nom. voltage of line conductor	240 V / 120 V
Rated grid frequency	60 Hz
Maximum input and output current	200 A
Continuous unbalanced current in backup mode at 120 V	41.6 A
Maximum overload capability*	7700 W

Connection of PV inverters and battery inverters

Maximum overcurrent protection for PV inverter	50 A
Maximum overcurrent protection for battery inverter	50 A

General data

Dimensions (W / H / D)	500 mm x 700 mm x 250 mm (19.69 in x 27.56 in x 9.84 in)
Weight	60 kg (133 lb.)
Operating temperature range	-25 °C to 55 °C (-13 °F to 131 °F)
Maximum ambient temperature (without derating)	45 °C (113 °F)
Enclosure type rating in accordance with UL 50E	3R
Protection class	1
Grid configuration	240 V : 120 V split-phase system
Cooling method	Convection

Features

Overcurrent protection for inverters included	●
Energy meter and current transformers included	○
Blackstart capable	●
Communication protocols to SBS-US	CAN bus
Certificates and approvals	UL 1741

* With SBS6.0-US at 25 °C for maximum 60 seconds

● Standard features ○ Optional features – Not available Data at nominal conditions

Type designation

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