

MBL160 Mobile Battery

More Energy, More Flexibility.

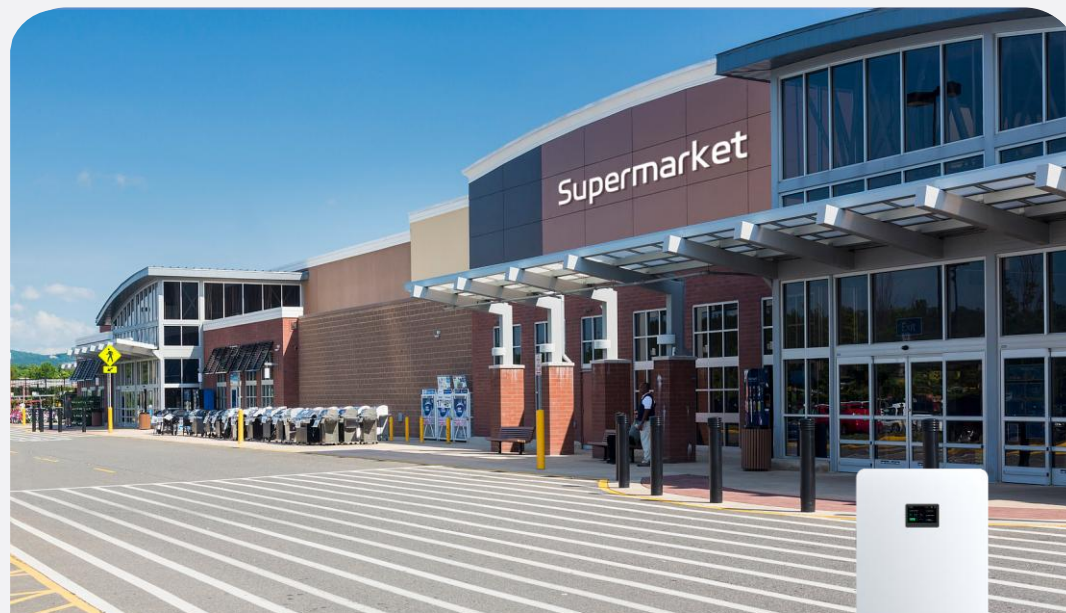


Ready for Residential and Commercial Scenarios



•Residential Scenario

MBL160 is compatible with the MGRL series inverters and is designed for residential applications.



•Small Commercial Scenario

MBL160 supports parallel connection of up to 20 units, enabling a total capacity of up to 320kWh for small commercial applications.

Product Overview

LCD Touchscreen

System Status
System Settings etc.

Width **432mm**

Upper Handle

Easy to Carry



Lower Handle

Easy to Carry

Wheels

Easy to Move



Height
855mm*

Depth
243mm

Power Port (Black and Red)

Connect Inverter & Battery

Communication Port 2

For Parallel Connection

Communication Port 1

For Inverter & Battery

DC Breaker

Power Button



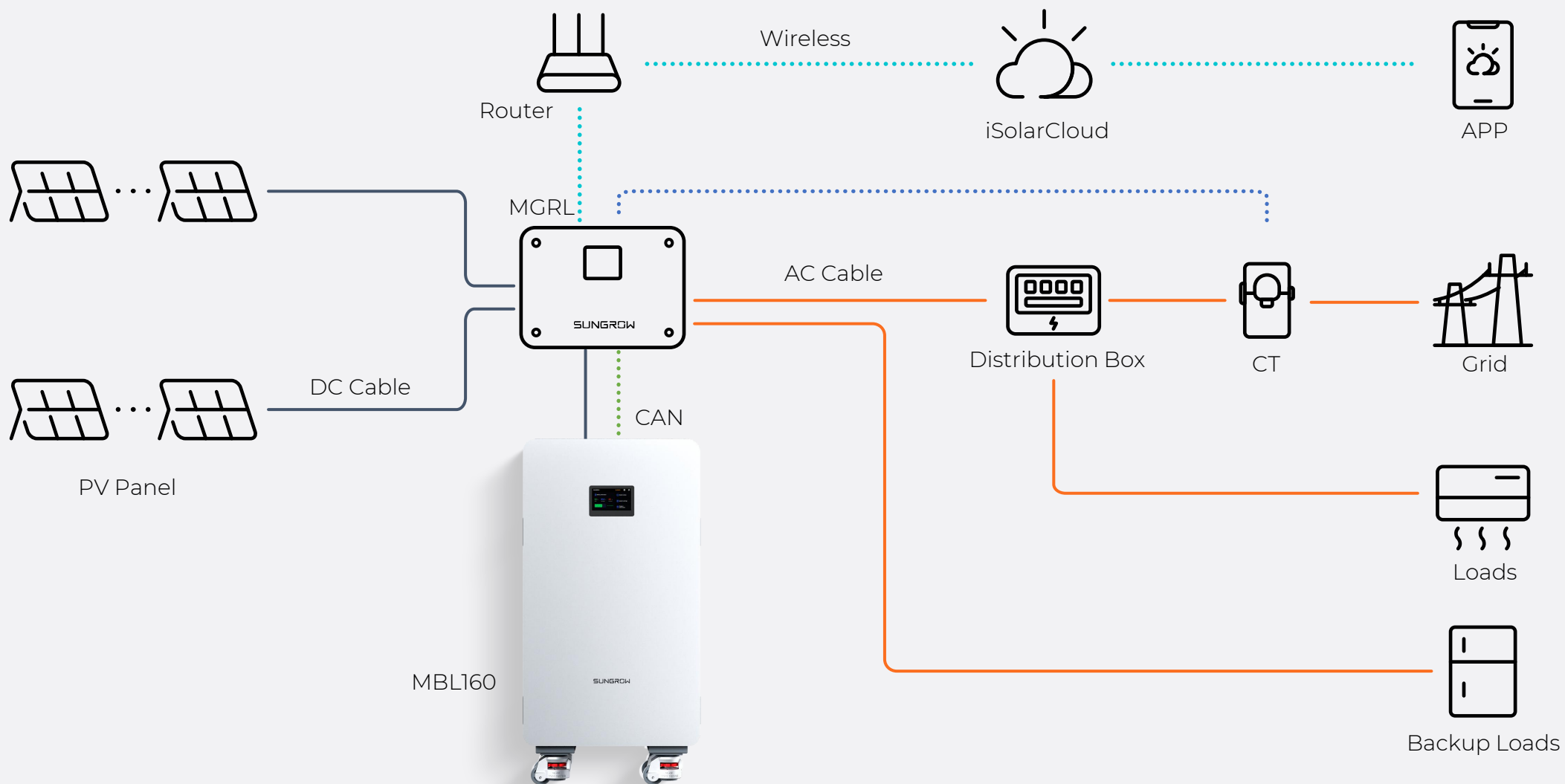
*Height including wheels

What's in the Box?

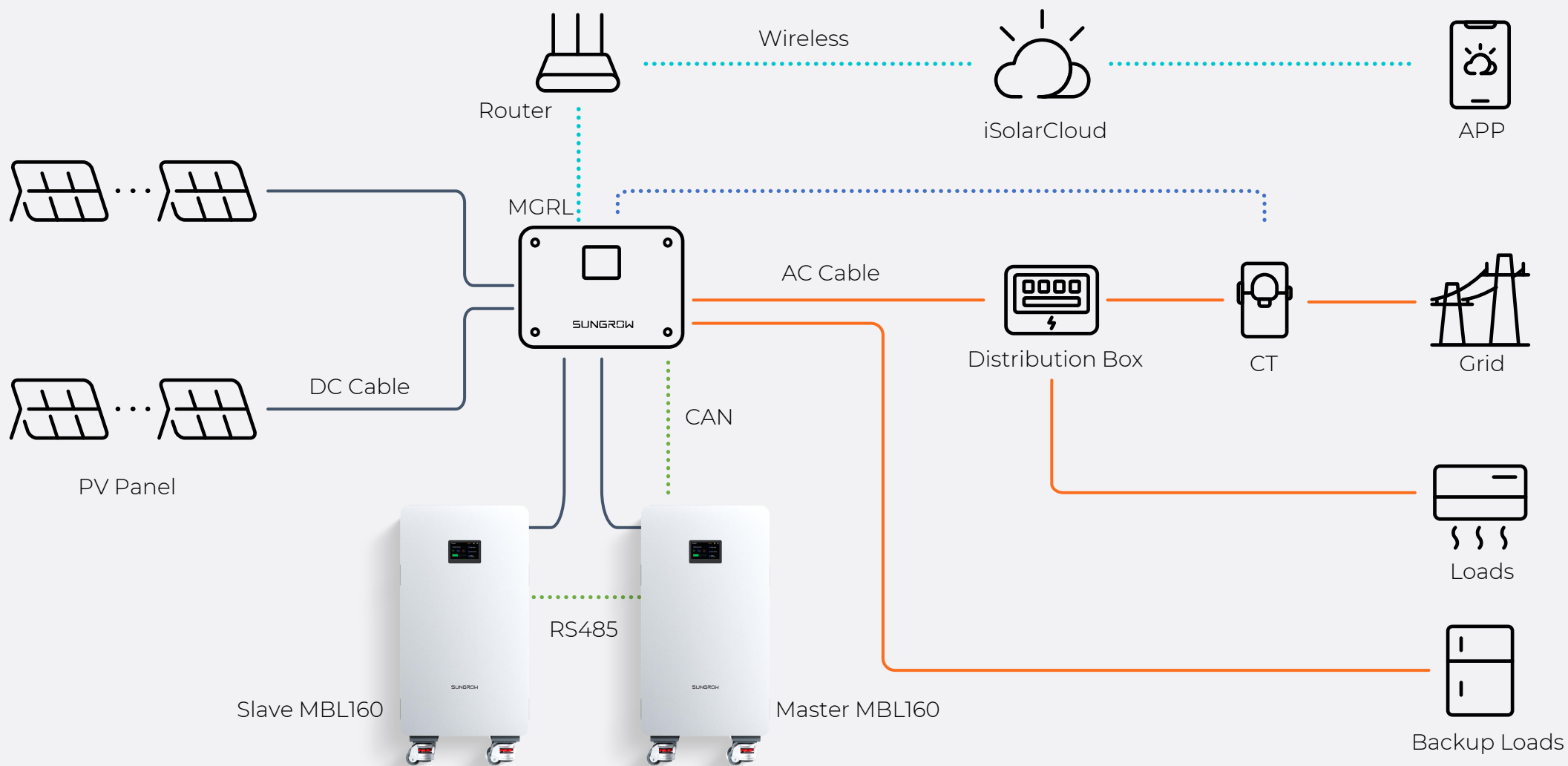
- ① MBL160 Battery
- ② Documents
- ③ Grounding Cable
- ④ Communication Cable (Inverter and Battery)
- ⑤ Communication Cable (Parallel Connection)
- ⑥ M8 Screw*2
- ⑦ M5 Screw*1
- ⑧ RJ45 Crystal Head*4
- ⑨ Black and Red Power Line*2 (1.5m)



System Overview

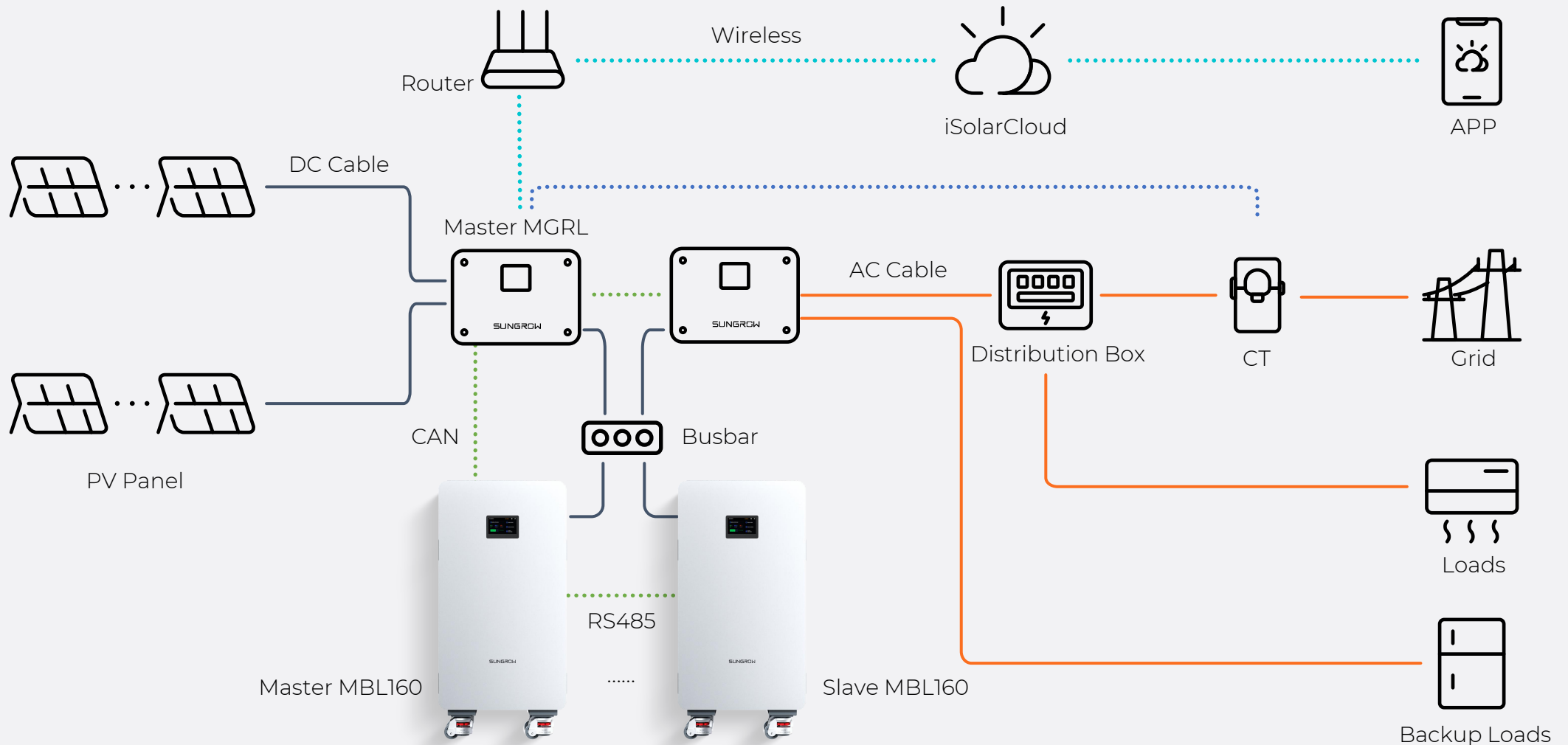


System Overview



* Supports parallel connection of up to 20 batteries. A busbar is required for systems with more than 2 units.

System Overview



* Supports parallel connection of up to 20 batteries.



One Brand Solution. Skip The Protocol.

Unlike some of our competitors, who need to adapt to third-party inverters, **our one-brand solution requires no protocol configuration between the inverter and battery.**



Connect the communication cable



Configure communication protocol



Done

Fully Charged. Ready to Go.

With a 157A rated charging current, the MBL160 reaches full charge in just 2 hours, delivering reliable power during peak usage or outages.

157A/0.5C

Rated Charging Current/C-Rate

< 2 hours

Time to Full Charge

*Charging time is based on 90% DOD. It takes 2 hours with the MG8/10RL. With the MG5/6RL, charging rates of 0.4C/0.43C give full-charge times of about 2.5–3 hours.



Grid Down. Power On.

The MBL160 works seamlessly with MGRL to form a one-stop off-grid backup solution, delivering powerful electricity support.

200A

Max. Discharging Current

11000W

Max. Output Power for Backup Loads

≤4ms

Backup Switch Time

*For the MG10RL, backup output power reaches up to 11,000W with PV input, and up to 10.54 kW when powered by the battery only.

*A single inverter system supports seamless switching within 4 ms, while parallel systems support switching within 6 ms.

Real 8,000 Cycles. Longer Lifespan.

With high-quality cells and advanced thermal design, the MBL160 delivers 8,000 cycles even under fast charge and discharge—surpassing competitors that reach this only at 0.2C.

MBL160

8000 Cycles/0.5C

Competitor A

8000 Cycles/0.2C

Competitor B

6000 Cycles/0.5C



Comes With Wheels as Standard.

Easy to Move, Easy to Level.

0-360°

Swivel / Lockable

0-10 mm

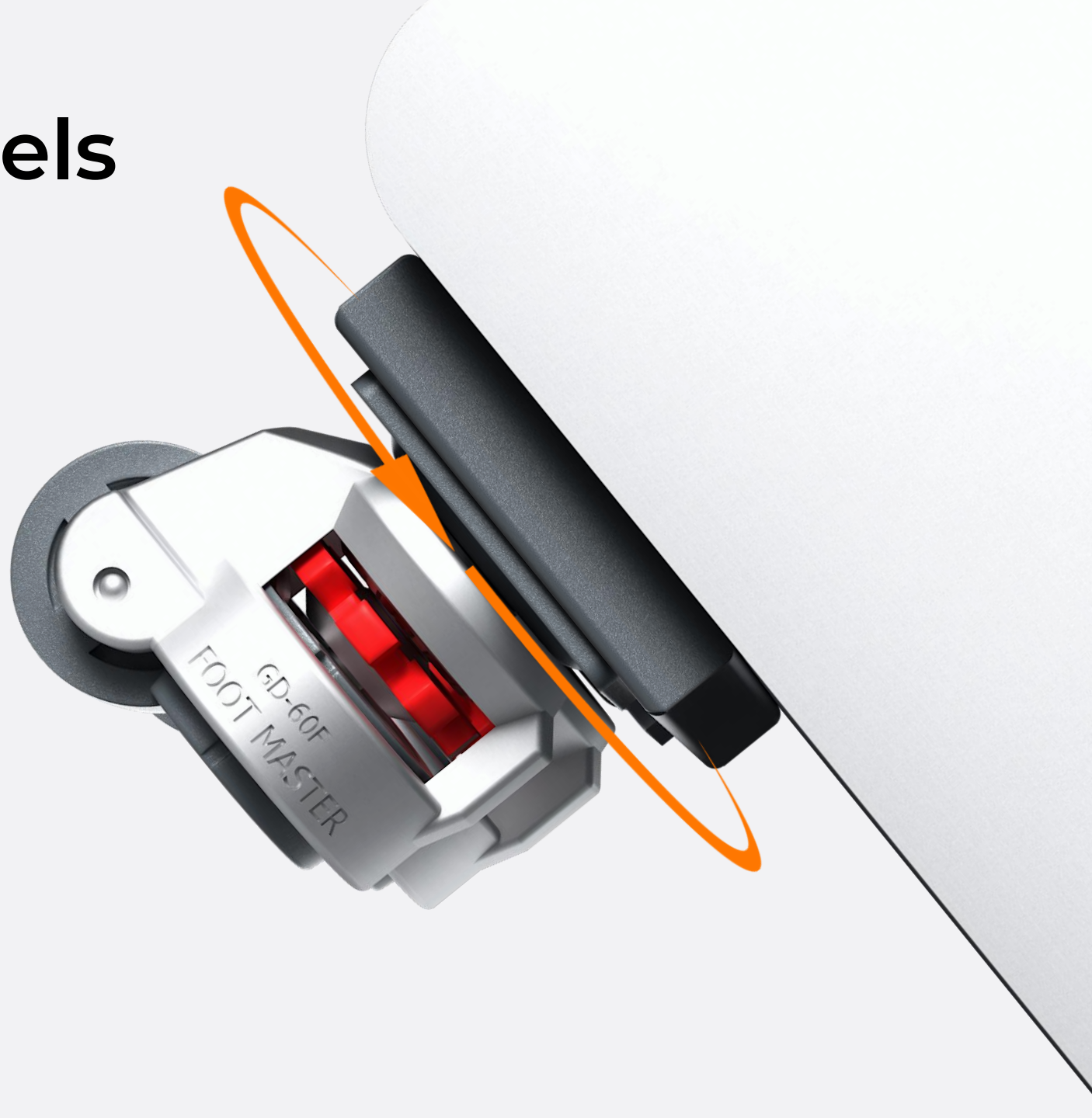
Adjustable leveling feet

250KG

Load Capacity Per Wheels

Floor-Friendly

Non-Marking Wheels



Scalable on Demand

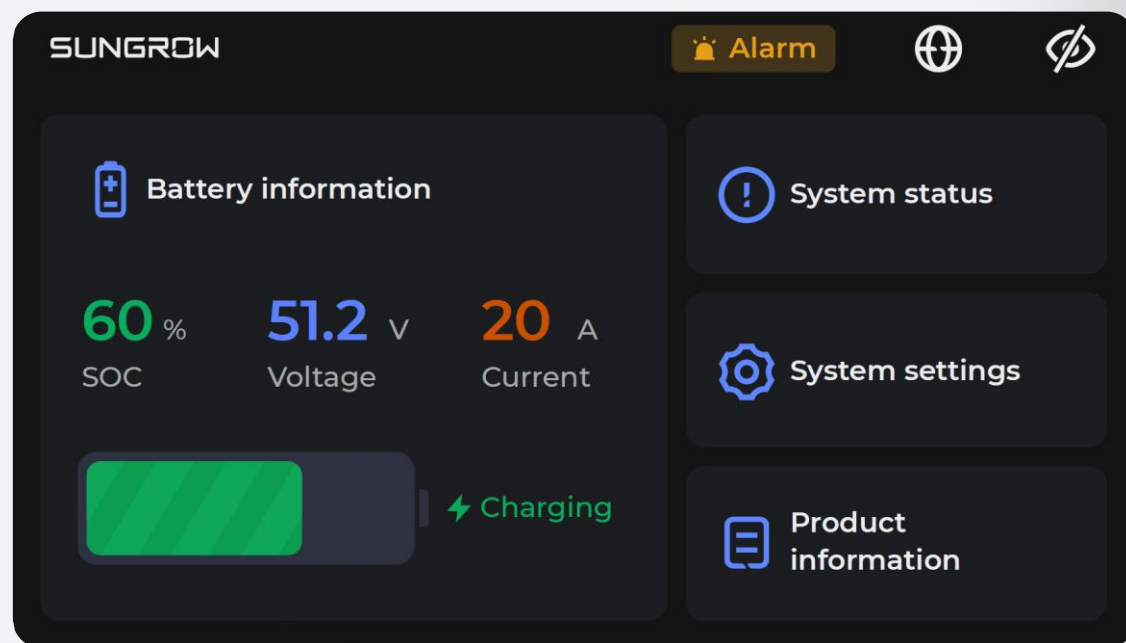
The MBL160 (16kWh) supports parallel connection of up to 20 units, delivering a total capacity of 320kWh—offering a highly flexible solution for both residential and small commercial applications.

20Units/320kWh



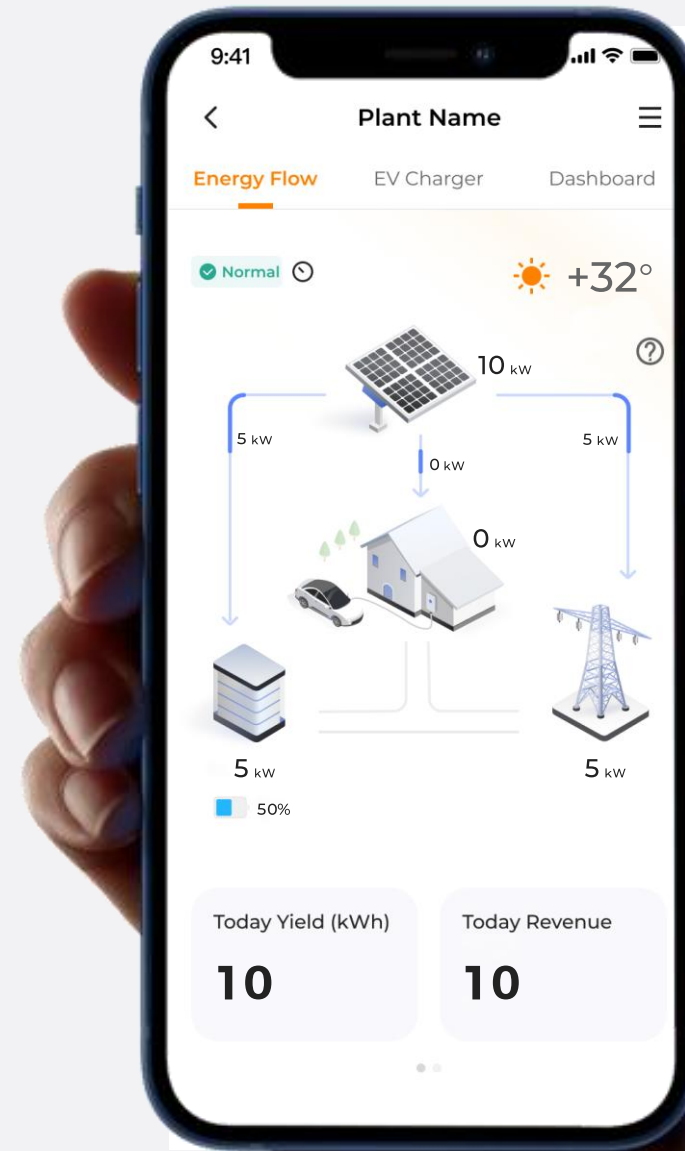
Home or Away, Power in View.

The MBL160 features an HD interactive screen for easy setup and instant access to system status and product information.



Home or Away, Power in View.

With iSolarCloud APP, installers, maintenance personnel, and users can configure the system, adjust product settings, and access information in real time—even when away from the device.



System Data

Battery Type	LiFePO ₄
Nominal Energy	16.08 kWh
Battery Cycles	8000 @ (25°C, 90%DOD, 0.5P, 70%SOH)
Nominal Voltage	51.2 V
Nominal Charging/Discharging Current	157 A
Max. Charging/Discharging Current (3 S)	200A

Communication

Display	LCD touchscreen
Communication Interface	CAN / RS485

Protection

Over/Under Temperature Protection	Yes
Over/Under Voltage Protection	Yes
Over Current Protection	Yes
Cell Balance Protection	Yes
DC Breaker	Yes

General Data

Dimensions (W*H*D)	432 mm * 855 mm * 243 mm
Weight	114.2 kg
Degree of Protection	IP20
Mounting Method	Floor Stand
Installation Location	Indoor
Charging Temperature	0°C~55°C
Discharging Temperature	- 20°C~55°C
Allowable Relative Humidity Range	5% to 95% No Condensing
Max. Operating Altitude	2000m
Cooling Method	Natural Convection
Max. Parallel Packs	20
Certification	CE, IEC 62619, UN 38.3, MSDS, ROHS, REACH

THANK YOU

MBL160 Mobile Battery | More Energy, More Flexibility.

