SigenMate

Max savings with AI

Plug & play · Powered by AI · Multi-use



Website | LinkedIn | YouTube

Sigenergy focuses on developing cutting-edge home and business energy solutions, with products ranging from energy storage systems to solar inverters and EV chargers. Our world-class R&D team of hundreds of top industry experts shares the vision of making the world greener via continuous innovation. With global sales and services, we aim to become our customers' most trusted partner on their journey to a more sustainable future.

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www.sigenergy.com

ABOUT SIGENERGY

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VISION

Enjoy green energy

MISSION

Leading AI-powered PV and energy storage innovation.
Build intelligent energy solutions with superior safety,
ultra simplicity, and outstanding performance.

SIGEN

Safe **I**ntelligent **G**reen **E**fficient **N**ew



Highly integrated

Ultra Safe

Fully Intelligent

User Experience-oriented

SigenMate 2700 Ultra

Hybrid Inverter & Battery

1400W
Bidirectional Charging power

2688 Wh
Energy Capacity

SigenMate BAT 2700

2688 Wh
Energy Capacity



SigenMate 2700 Ultra

DC Input (from PV)

Max. PV power	4000 W
Max. DC input voltage	60 V
MPPT voltage range	16 ~ 60 V
Number of MPP. trackers	4
Number of PV strings per MPPT [1]	2
Max. input current per MPPT	32 A
Max. short-circuit current per MPPT	44 A

AC Output (on-grid)

Nominal output power	800 W
Max. output apparent power	800 VA
Max. AC Passthrough Power	3600 W
Nominal output current	3.6 A
Nominal output voltage	220 / 230 / 240 V
Nominal grid frequency	50 / 60 Hz
Power factor	0.8 leading ~ 0.8 lagging
Total voltage harmonic distortion	THDi < 3%

AC Output (backup)

Nominal output power	1400 W
Peak output power (10 seconds)	1800 W
Max. output power of parallel systems (2 pcs)	2800 W
Max. output power of parallel systems (3 pcs)	3600 W
Nominal output voltage	220 / 230 / 240 V
Nominal output frequency	50 / 60 Hz
Power factor	0.8 leading ~ 0.8 lagging
Total voltage harmonic distortion	THDv < 3%

1. External Y-type terminal is required.

SigenMate 2700 Ultra

Storage System

Battery type	$LiFePO_4$
Cell capacity	105 Ah
Total energy capacity	2.688 kWh
Max. charge power	1800 W
Max. discharge power	1400 W

General Data

Dimensions (W / H / D)	460 / 275 / 225 mm
Weight	29 kg
Storage temperature range	-25 ~ 60 ℃
Operating temperature range	-20 ~ 55 ℃
Relative humidity range	0% ~ 100%
Max. operating altitude	4000 m
Cooling	Natural convection
System ingress protection rating	IP66
Installation method	Floor standing
Communication	WLAN, Bluetooth

SigenMate BAT 2700

Battery type	$LiFePO_4$
Cell capacity	105 Ah
Total energy capacity	2.688 kWh
Max. charge power	1800 W
Max. discharge power	1400 W
Dimensions (W / H / D)	460 / 215 / 225 mm
Weight	25 kg

4 MPPT

Get more solar energy for your home,
even if parts are shaded.

Up to 4000W PV Input

Harness more sun, charge faster,
and power more—even in cloudy days.



From 2.688 to 18.8 kWh
Expandable capacity

Support up to 1 host with up to 6 battery modules
Expand your storage anytime. Start small, grow as you need.

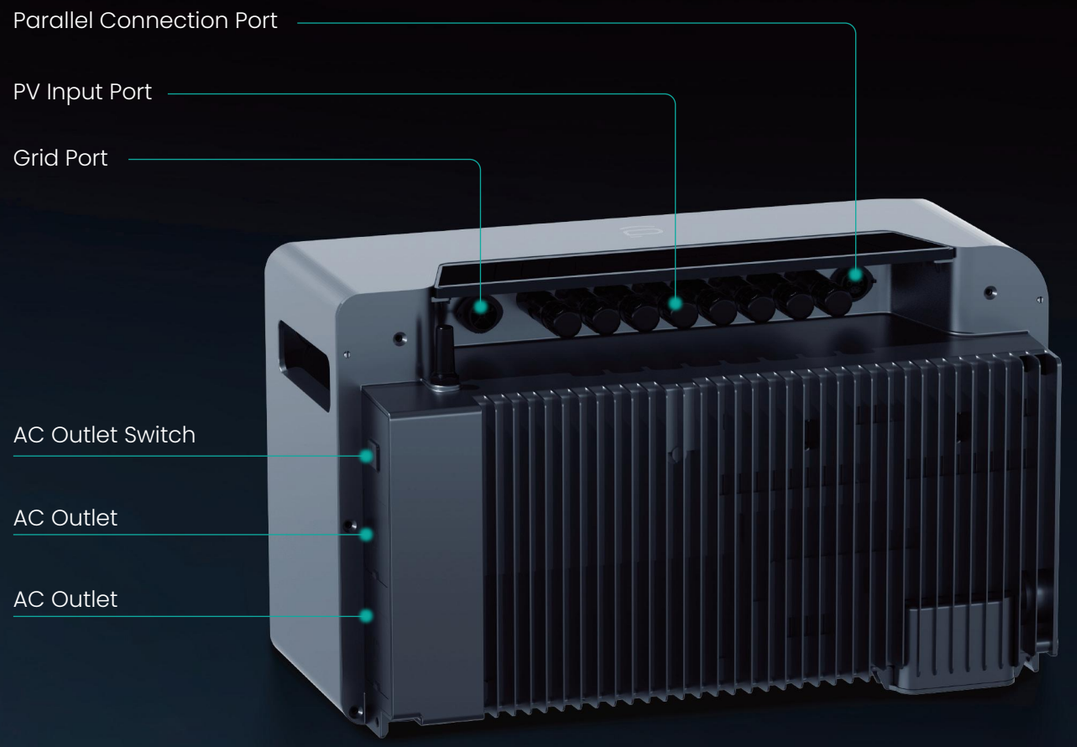
56.4 kWh
Max. parallel capacity

Support up to 3 units in parallel connection
Our most powerful configuration for
demanding energy needs.



A Closer Look:
SigenMate Lights & Ports





Your Home's Smart Money-saving Brain

Predictive energy strategies powered by weather, pricing, and lifestyle intelligence.

Over **30000 Systems** are already under **Sigen AI Mode**

As of 2026.5

Smart Weather Tracking

Knows exactly when your solar panels will produce the most power.

Price Watch

Optimizes grid charging and energy usage based on real-time pricing patterns.

NORD POOL TenneT eex octopus energy More dynamic tariff partners joining ...

Learns Your Lifestyle

Understands your family's energy needs to ensure power is always there.



Your Smart Home Energy Companion

LLM-powered Sigen AI Assistant

Today's consumption chart

How do I access the electricity tariff settings?

Transparent Reasoning

Clear AI reasoning presented in rich text

Smart Insights

See easy-to-understand charts and tables

24/7 Personal Support

Your dedicated energy expert, anytime

Beyond savings, AI transforms how you interact with, manage, and understand your home.



Sankey Diagrams

See exactly where your energy flows-from solar, battery, or grid to each appliance

Total Visibility

View energy consumption ratios by day, week, or month

Effortless Control

Manage operation modes and run times for maximum efficiency

Rear-wired for Flexible Installation

Cables can be routed from either side or through the back for a cleaner setup.



Unleash 3600W
Run It All

3600W powerful output of AC outlets*.
Enough to run your high-demand appliances.
If solar or battery runs low, SigenMate instantly
draws from the grid to keep your full power going.



*SigenMate has two AC outlets. Each port supports up to 3600W, with a combined total output of 3600W across both ports.

Instant Backup Power

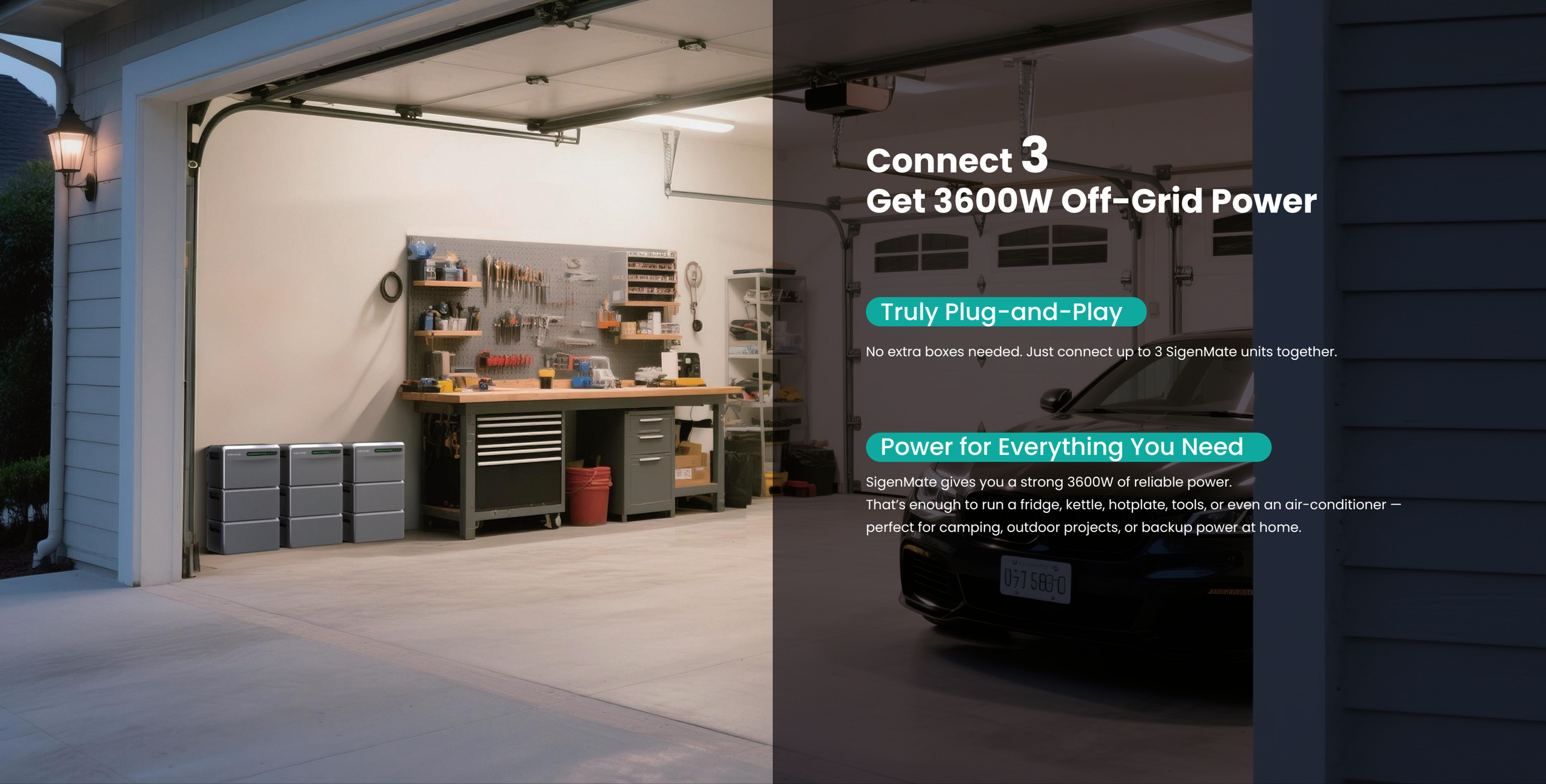
Seamless Grid-to-Backup Switching

When the power goes out, SigenMate kicks in seamlessly—
so smoothly that even sensitive electronics like computers won't notice a thing.

For Two Devices at Once

Power two backup appliances at once with full 3600W strength.





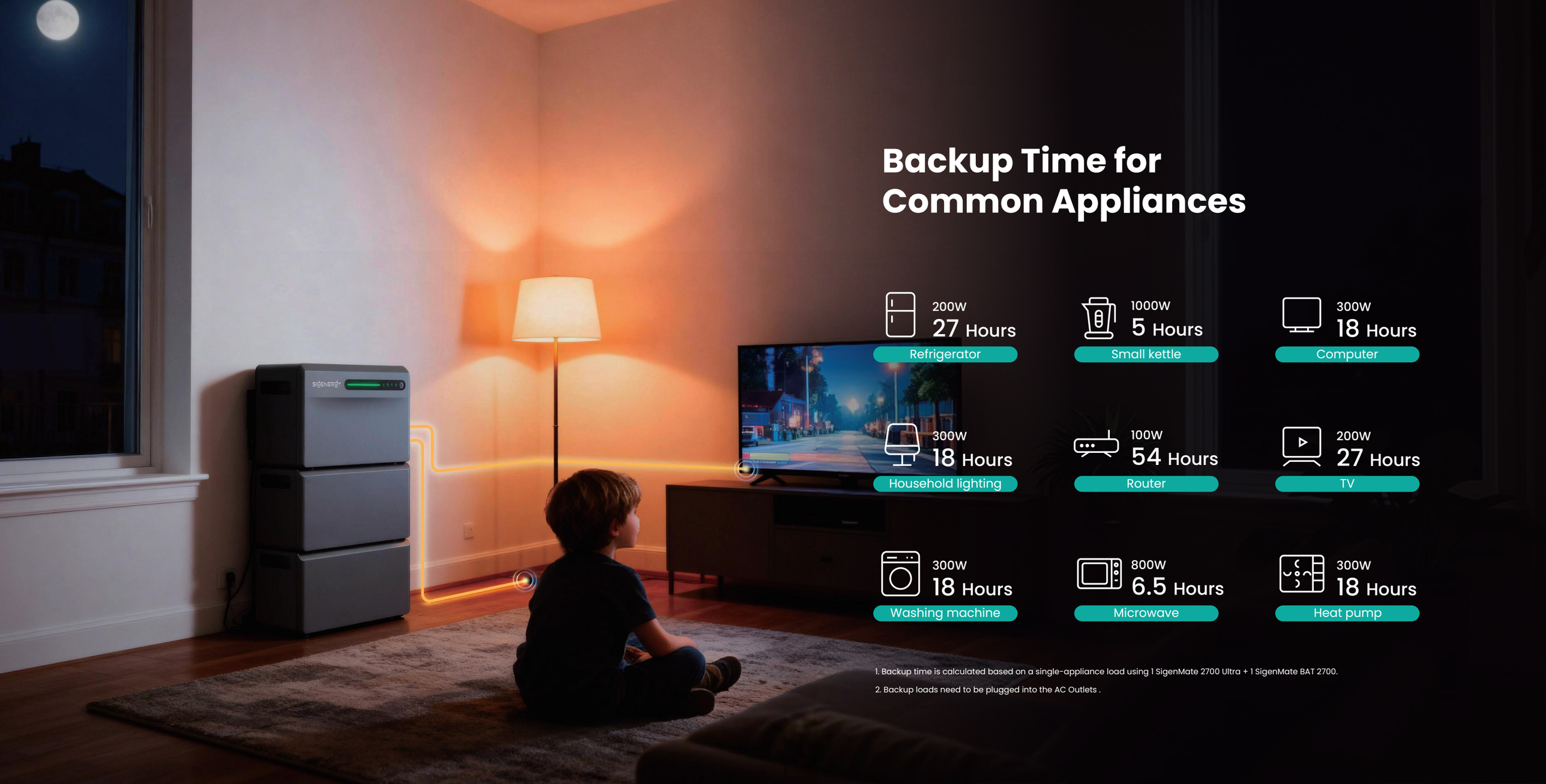
Connect 3
Get 3600W Off-Grid Power

Truly Plug-and-Play

No extra boxes needed. Just connect up to 3 SigenMate units together.

Power for Everything You Need

SigenMate gives you a strong 3600W of reliable power.
That’s enough to run a fridge, kettle, hotplate, tools, or even an air-conditioner — perfect for camping, outdoor projects, or backup power at home.

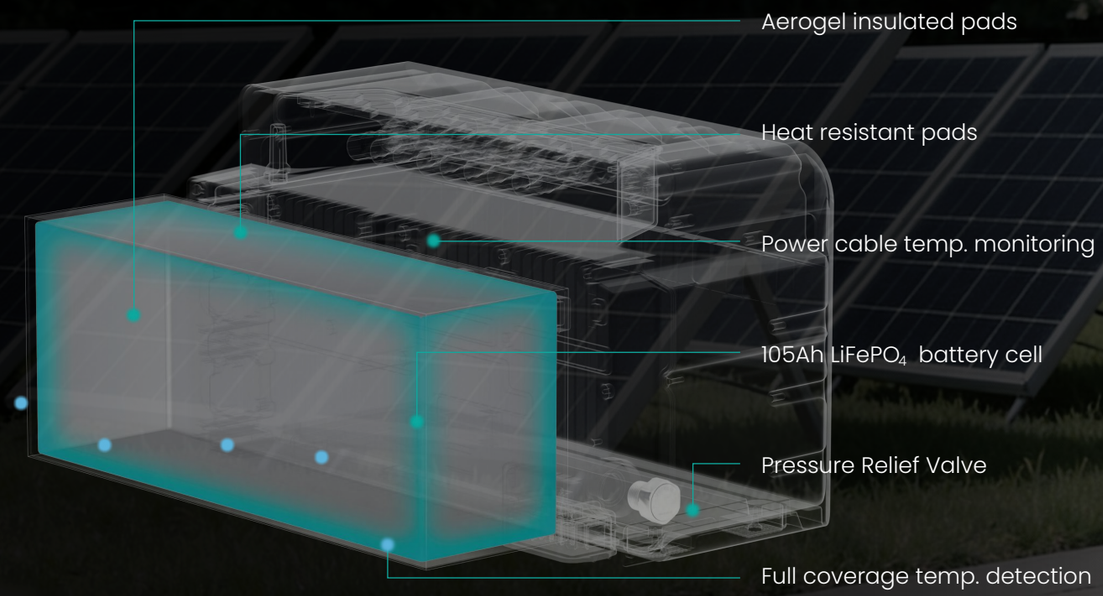


Backup Time for Common Appliances

200W 27 Hours Refrigerator	1000W 5 Hours Small kettle	300W 18 Hours Computer	
300W 18 Hours Household lighting	100W 54 Hours Router	200W 27 Hours TV	
300W 18 Hours Washing machine	800W 6.5 Hours Microwave	300W 18 Hours Heat pump	

1. Backup time is calculated based on a single-appliance load using 1 SigenMate 2700 Ultra + 1 SigenMate BAT 2700.
2. Backup loads need to be plugged into the AC Outlets .

Complete Protection.
Total Peace of Mind.





IP66 protection rating

Fully sealed against dust and powerful water jets.

Tough enough for any weather.

What does IP66 mean?*

6 Dust protection rating

6

Dust-tight:
Complete protection; no dust entry under test.

5

Dust protected:
Dust ingress is limited and non-harmful.

4

Protection against objects ≥1.0mm:
Keeps out most wires, screws, and insects.

6 Water protection rating

6

Heavy Rain/Washdown Protection:
Resists high-pressure water jets (e.g., rainstorms, car washing).

5

Washdown Protection:
Withstands direct low-pressure water jets (e.g., from a faucet).

4

Daily Protection:
Resists accidental splashes like spilled drinks.

* According to the IEC 60529 standard

Battery Heating Pad

Supports both automatic and manual heating. The heating function automatically activates when the battery cell temperature falls below 10°C during discharge, and users can also pre-set scheduled heating for added convenience.

Always Online. Never Forgets.

Smart Band Switching

Automatically switches between 2.4GHz and 5GHz for a more stable connection.

- Keeps SigenMate online reliably – even when your home Wi-Fi is crowded
- Maintains the most stable link – real-time control
- Optimizes network performance – instant data loading

Extended Local Storage

Keeps data locally up to 30 days, then syncs to the cloud when online.

- Complete Data History –
  View uninterrupted energy history in mySigen App
- Precise Troubleshooting -
  Helps support teams diagnose issues more accurately



Choose How You Use It

Need power anywhere outdoors?
Pair SigenMate with portable trolley for stable electricity on the go.



Need to add storage to your existing microinverter?
Pair it with SigenMate — the storage that works with any microinverter system.*



* The total power of connected microinverters is recommended not to exceed 800W.