

Technical Parameter









Model	HESS-HY-S-7.0K/8.0K/10.0K	
MPP voltage range / rated input voltag	40V to 530V / 380V	
No. of independent MPP trackers / strings per MPPT	3 / 1	
Max. input current per MPP tracker	20A	
Battery voltage range	40-60V	
Max. charging current / Max. discharging current	165A 190A 210A	
Rated AC Output apparent power	7000VA 8000VA 10000VA	
Rated EPS Output apparent power	7000VA 8000VA 10000VA	
Max. switch time	<10ms	
Weight	34.5kg	
Certifications	EN 61000/IEC 62109/EN 50549/G99	

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Technical Parameter

7kW / 8kW / 10kW

Single-phase Hybrid Inverter

Designed for high-power residential and small commercial applications, it supports safe and reliable low-voltage battery connection.

With 3 MPPTs and 200% DC oversizing, it maximizes rooftop solar generation.

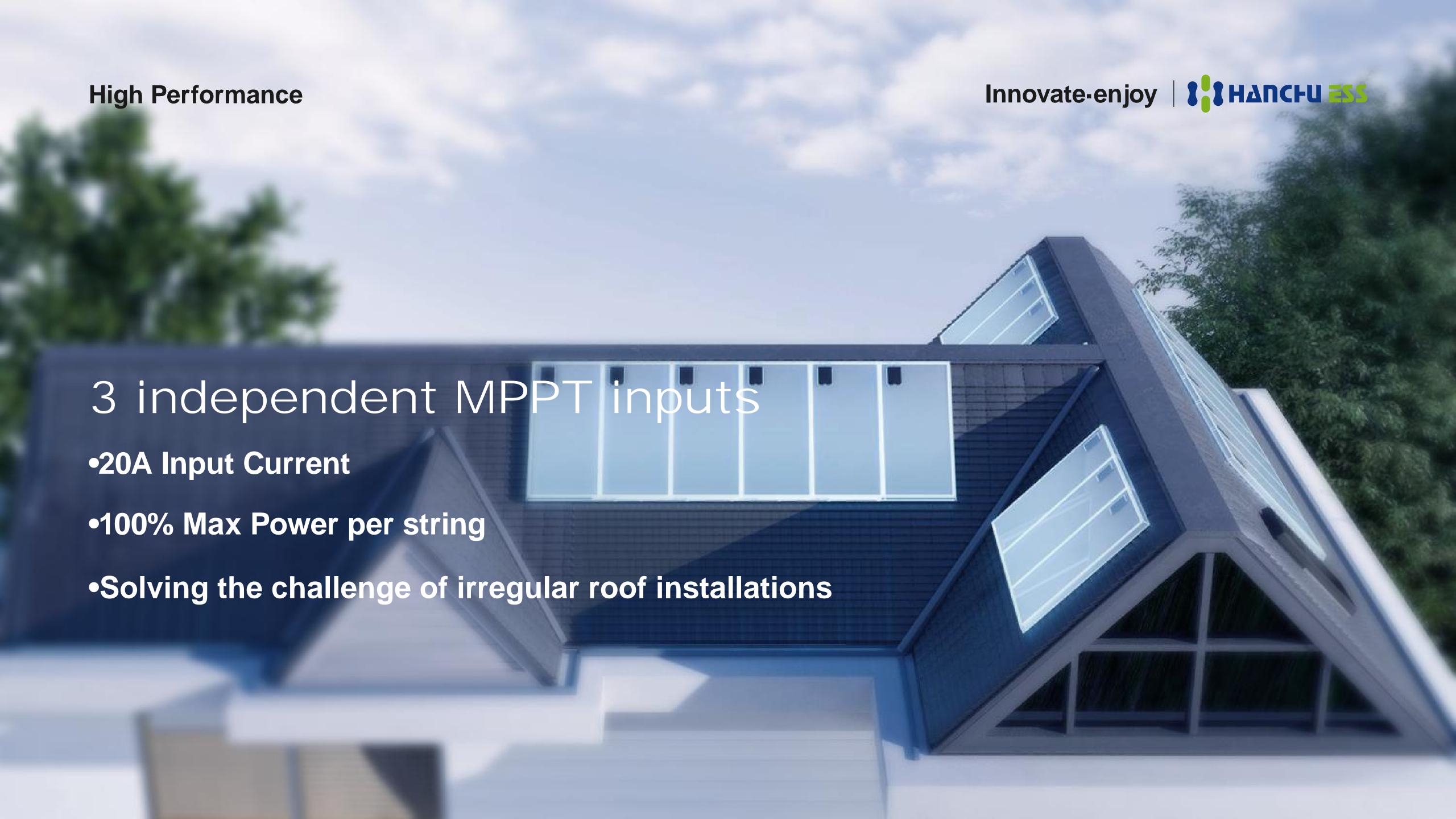
Featuring 10ms on/off-grid switching and IP66 protection, it ensures stable power supply and higher self-consumption.



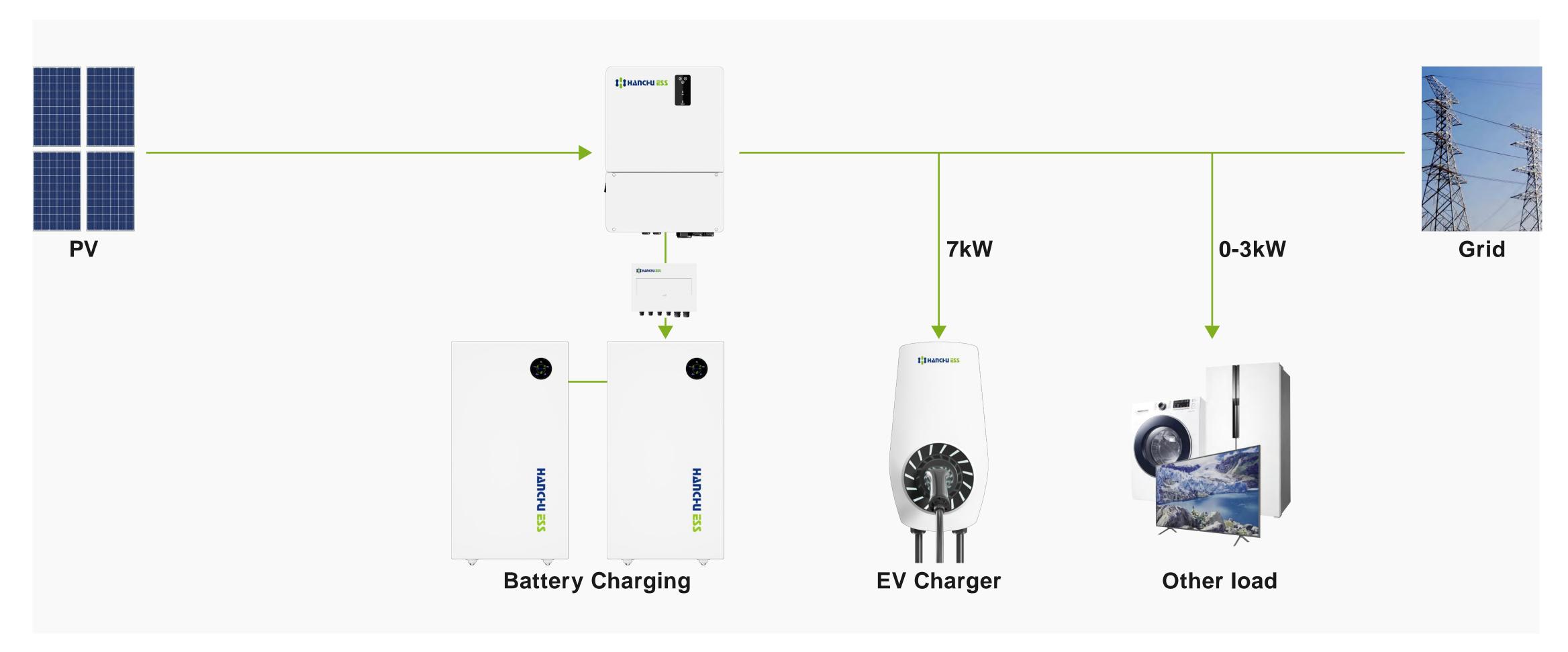
High Performance Safe and Reliable **More Flexible** More intelligent



High Performance







Support for higher-power loads

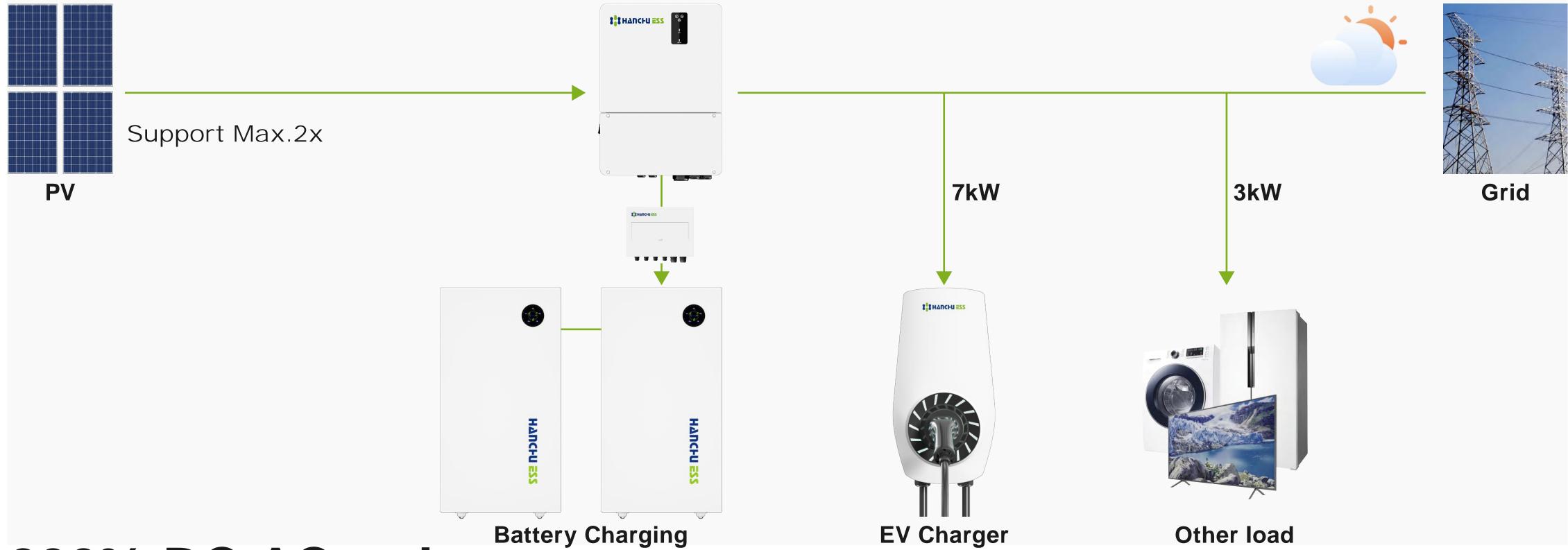
Higher-power loads can now run on more clean energy.

High Performance



Maximized Energy Output

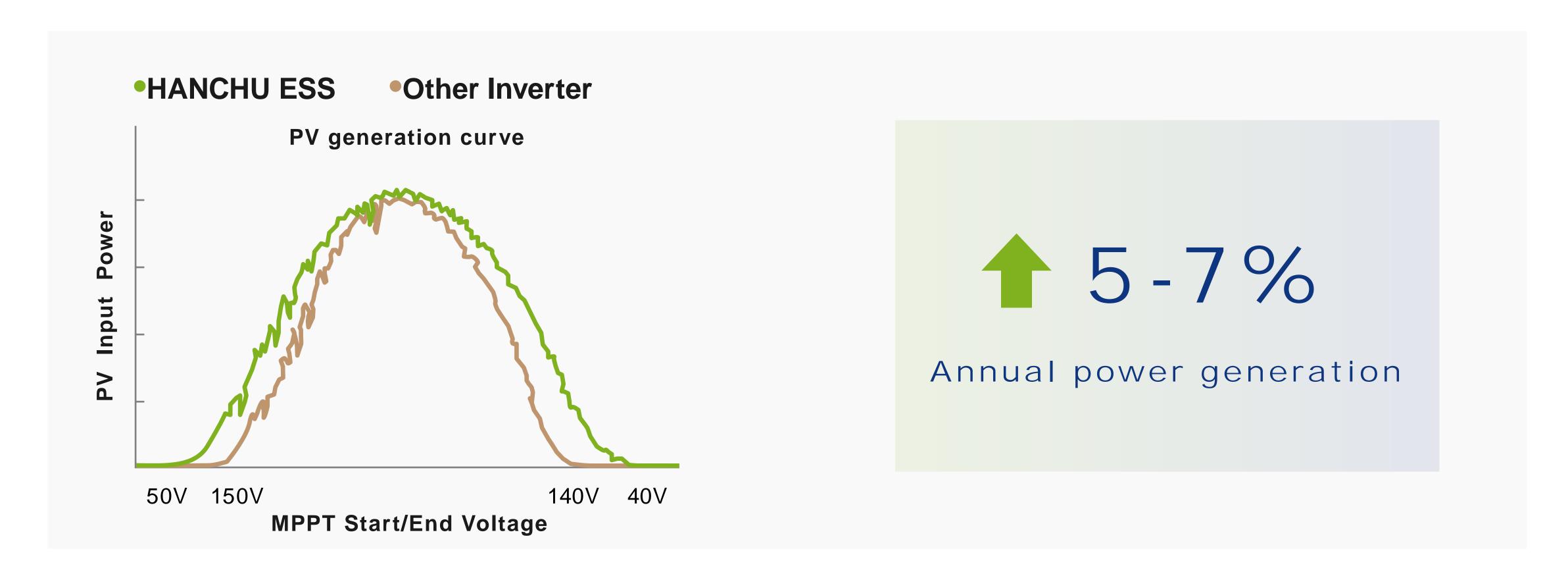
Maximise power generation even under weak sunlight and frequent UK cloudy conditions.



200% DC:AC ratio

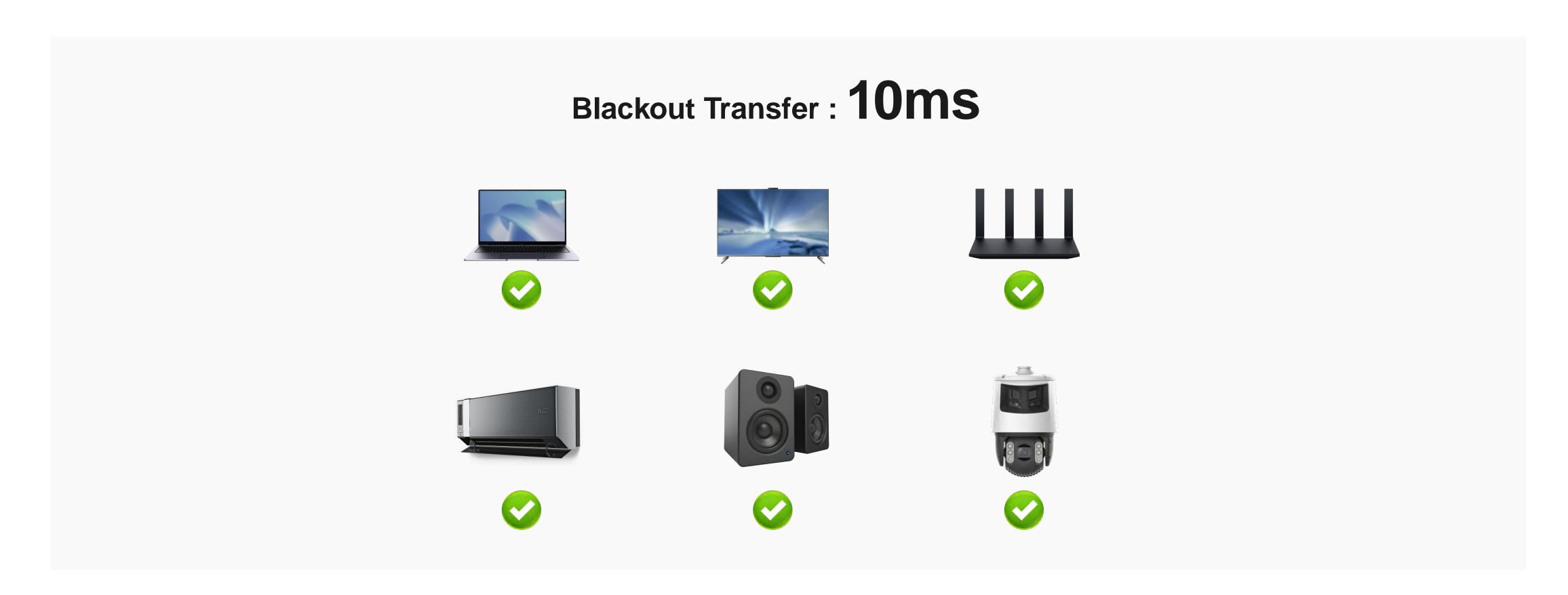
The entire series supports 200% DC to AC overload





Extended generation: 1 hour earlier start-up, 1 hour later shutdown.

Lower startup voltage to 50V: The solar panel can start to generate power at the lowest voltage of 50V.

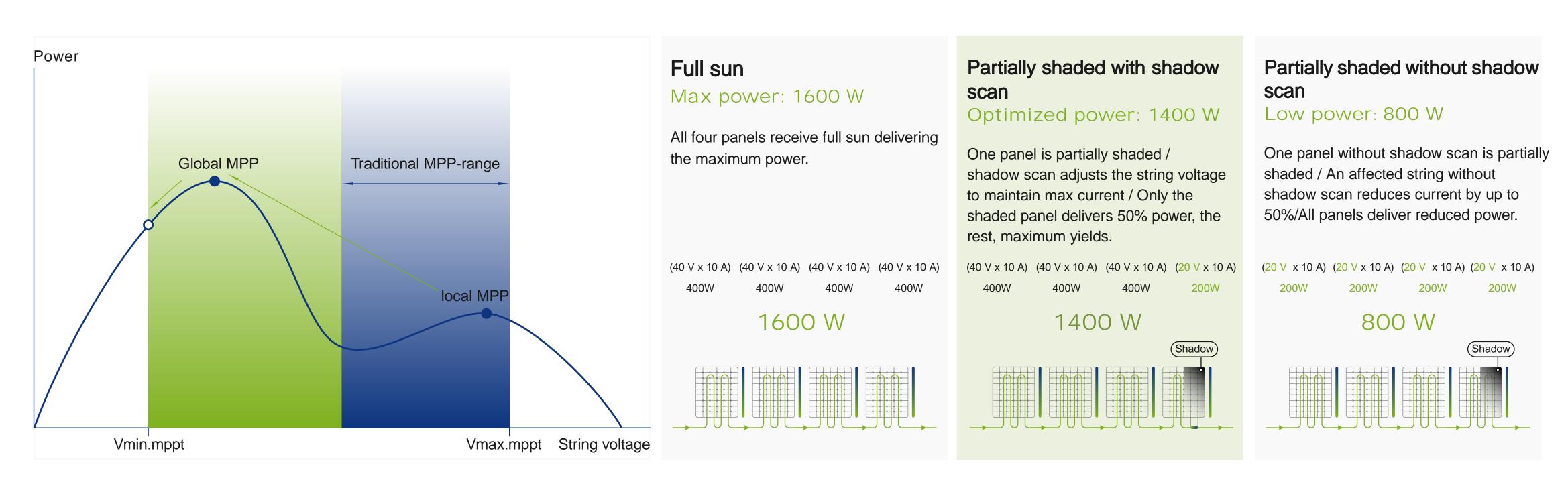


Never feel the power blackout

10ms Seamless Grid to Backup Switching

High Performance





Shadow Scan

- High technology with global scanning.
- No extra cost.
- Optimize the power generation of multi-shadow scenarios.



Safe and Reliable

IP66

IP:Ingress Protection

6:Totally protected against dust

6:Water resistant against powerful jets



High degree of protection for outdoor application.



- Surge protection
- · Insulation resistance detection
- PV string input reverse polarity protection
- Ground fault monitoring
- Residual current monitoring unit
- · AC short circuit protection
- Anti-islanding protection

Seven layers of protection

Safeguarding your home and equipment at every level.



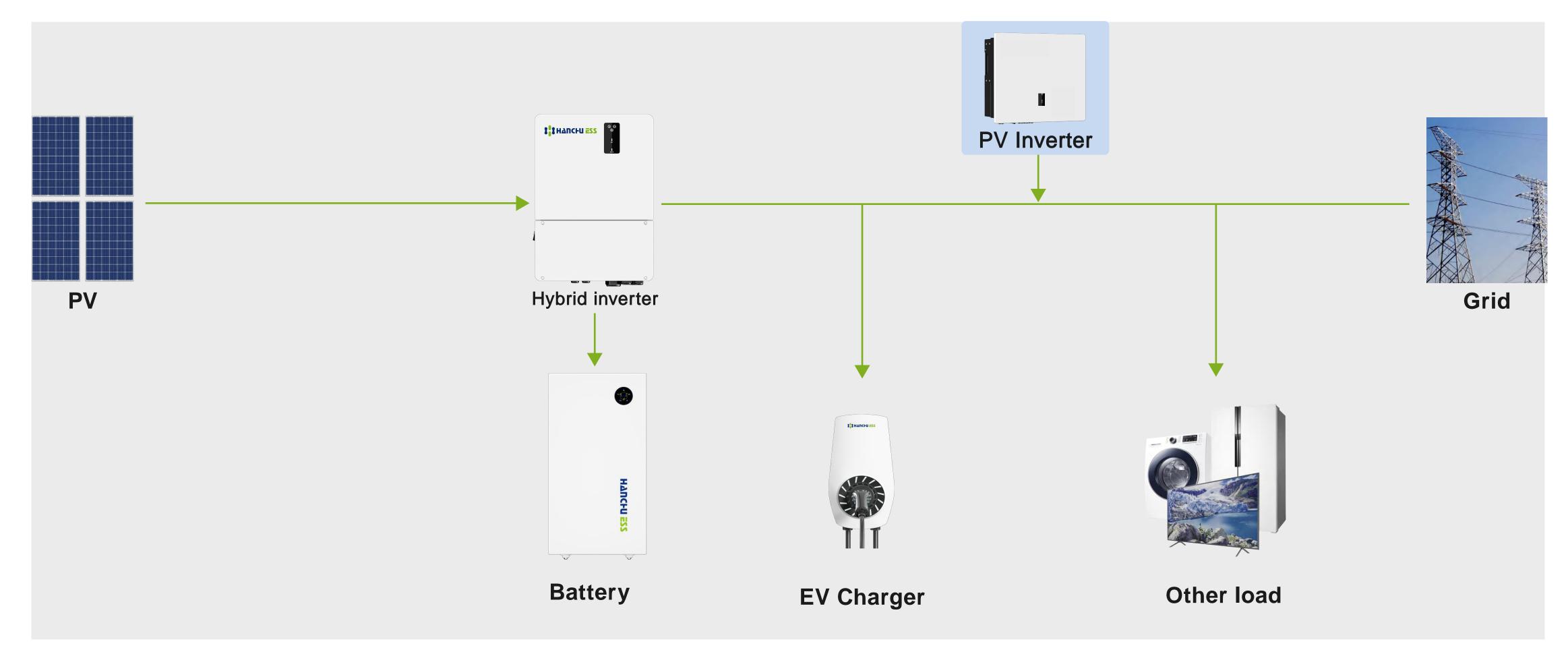
More Flexible





Supporting diesel generator

We designed a dedicated genset port not only for diesel backup, but also to serve as a powerful load port. It can directly drive heavy loads and intelligently control start/stop based on SOC.

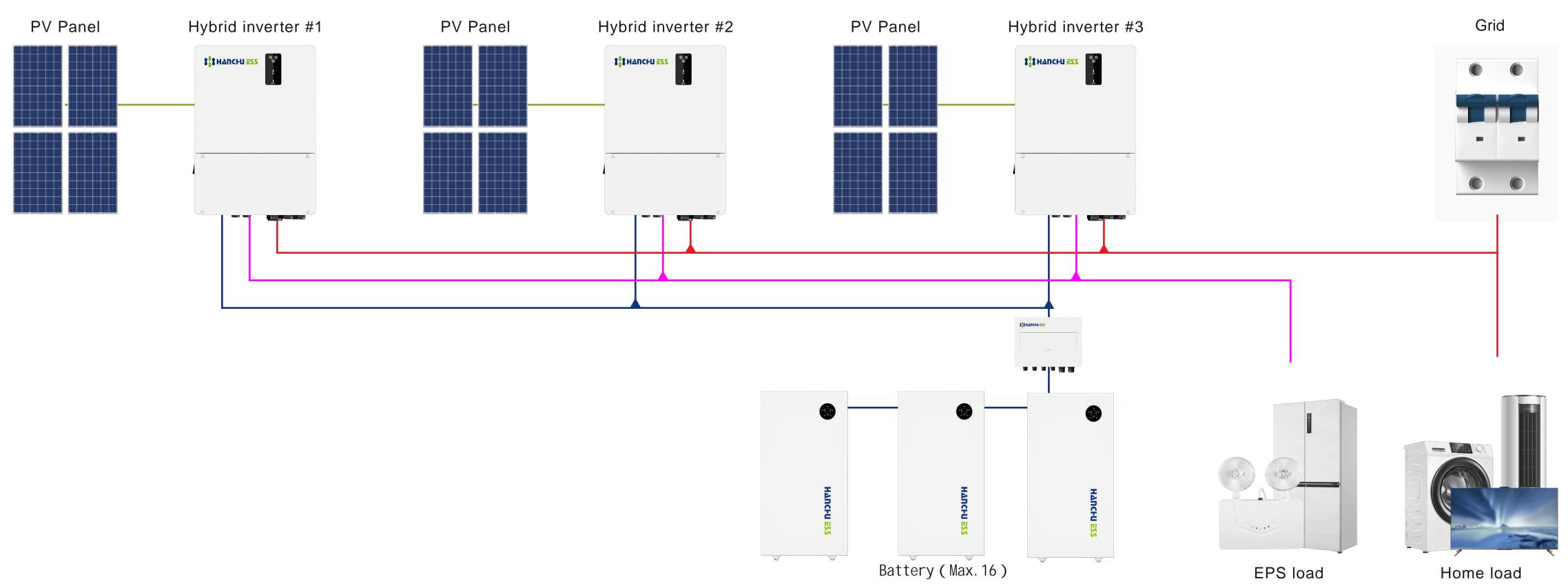


Compatible with PV inverters

Supports AC coupling to work with PV inverters for power generation.

More Flexible

Parallel work mode



Parallel inverters Number: 3pcs

(expandable to 6 units in the future)



Quick approval, faster ROI

UK DNO Grid Connection Approval Comparison

	7kW model	Non-7kW models(eg,8kW-12kW)
Current Limit	≤32A	>32A
Approval Path	G99 Fast Track	Full G99 Application
Fee	Low	Often £400
Timeframe	2 weeks	up to 2 months
Benefit Impact	Quick approval, faster ROI	Delayed connection, lost gains

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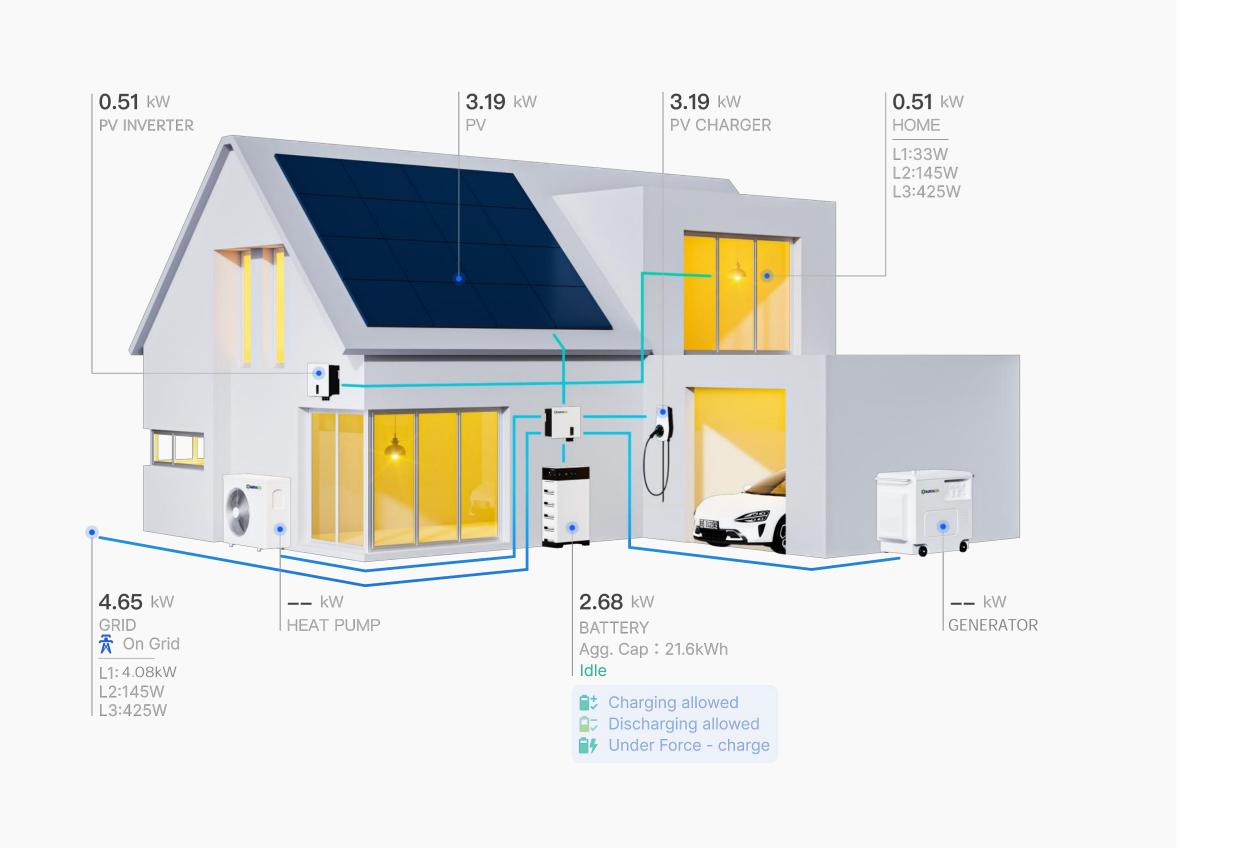
More intelligent

More intelligent



Smart setup, commissioning and monitoring

- •7*24h Real-time energy flow monitoring.
- Proactive O&M with timely fault detection.
- •Flexible settings, supporting more mode switching, grid/off-grid discharge cut-off SOC, and more.
- •Support Local/Remote upgrades for new features.



More intelligent



More flexible scenarios, smarter strategies management

- •Supports multiple modes to fit diverse scenarios.
- √self-consumption, backup power, user-defined,feed-in priority and based on SOC.
- Supports TOU strategies.
- √8 charging/discharging periods.
- √dynamic pricing with peak-valley optimization.
- √Weather Optimize.
- √overload compensation.

