

Superior Cells

Maximum Safety & Reliability



High Performance & Safety

> 6000 Cycles Ultra-Long Life
10-Year Performance Warranty



High Reliability

Fully Certified with IEC 62619 & UL9540A (cell)
Powered by Tier 1 Cell Supplier

Seamless Switching

Smooth Transition, No Interruption

< 10 ms*

Switching Time



- 1 Uninterrupted Power, Uninterrupted Life.
- 2 Switches seamlessly within 10ms—no noise, no restart, no data loss.
- 3 Fully automated, zero manual intervention.

* Performance attainable in standard application scenarios.

Safeguard Systems

Comprehensive Safety — Multi-layer Protection

- 1 Surge Protection – Whole-home shield against lightning.
- 2 Insulation Monitoring – Detect risks before they become hazards.
- 3 Remote Shutdown – Smart control, anytime, anywhere.
- 4 Multi-Layer Current Protection – Complete protection, built in.
- 5 AFCI Protection*— Stop arc faults, prevent fire risks.

* This feature is optional. For more information, please contact KSTAR.

Flexible Expansion

Seamless Parallel Connection

4 units

Modular Power Expansion

- 1 Connect up to 4 units without the need of extra accessories.
- 2 Flexible modular design expands system capacity with ease.
- 3 Powering every high-demand appliance in your home.

Simplified Deployment

Quick Installation, Easy Maintenance

15 mins

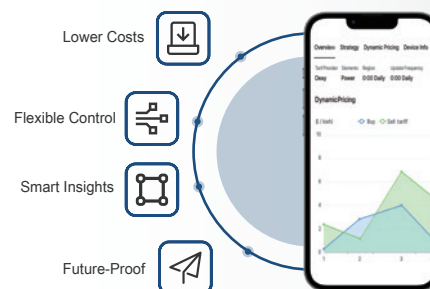
Installation Time



Quick-connect design significantly reduces installation time, making setup faster and easier.

Dynamic Tariff Optimization

Seamlessly integrated with EPEX Spot



KSTAR
Powering the Future

BlueSpark Series

Smart Energy for Every Home



www.kstamewenergy.com www.kstar.eu

All-In-One

Seamless Backup & Scalable Operation

- 1 Seamless backup transition with built-in STS—no external switching device required.
- 2 Commercial-grade scalability — up to 20 on-grid & 10* off-grid unit.
- 3 Integrated BMS, EMS, cooling, and genset input deliver unmatched reliability.
- 4 Pre-installed at the factory for streamlined on-site installation.
- 5 Simplified operation through remote monitoring, centralized control, and modular maintenance—reducing O&M costs to the minimum.

* For 7-10 units parallel in off-grid, please consult KSTAR presales.

Multi-level Fire Protection

Certified with UL9540A for proven safety—setting the highest standard in fire protection and reliability



Two-Level Thermal Trigger

Dual-stage fire-extinguishing mechanism activated by abnormal heat, ensuring rapid suppression at the source.



Smart Ventilation Linkage

Monitors precursor gases, CO, and temperature rise to detect early signs of thermal runaway.



Early Warning & Rapid Response

Delivers faster on-site and remote alerts, minimizing risks before escalation.



Explosion Relief & Water Immersion

Automatic pressure release combined with water-immersion extinguishing provides ultimate system safety.



Full Series Self-Developed

Self-developed BMS, EMS and Cloud platform ensure seamless system-level optimization



3-level BMS



EMS



Cloud Platform

Superior compatibility, faster fault diagnosis, and continuous firmware upgrades.

Versatile AC/DC Coupling

One system supports both AC and DC coupling for maximum flexibility



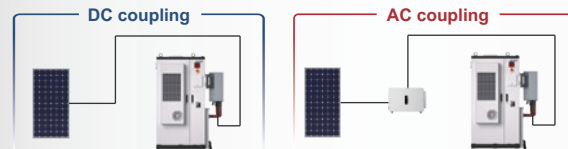
DC Coupling

PV directly connects via MPPT inside the system — higher efficiency, fewer devices, lower cost.



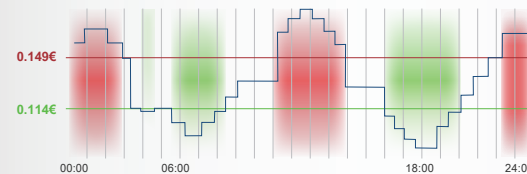
AC Coupling

PV connects through an external inverter — Strong compatibility, flexible expansion, ideal for retrofits.



Leading EMS & VPP

Seamless Integration with Leading EMS & VPP Partners



KSTAR Built-in (Coming Soon): Integrated dynamic pricing.



Third-Party Integration: Flexible market access.

BluePulse Series

Reliable Power for Demanding Applications

