

BluePulse Series

KAC125DP2-BC260DE2A

Three Phase 125kW Hybrid Inverter
260kWh Cabinet

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High cell consistency
10 Years Performance Warranty
- 

314Ah large capacity cell,
higher energy density
- 

Backup / Genset Input
Integrated
- 

Integrated self-developed
BMS / EMS for flexibility
- 

Fire Safety with Alarms, Valves,
Smoke / CO sensors,
UL 9540A Certified
- 

Small size, small footprint
Long-lasting battery cycle life
- 

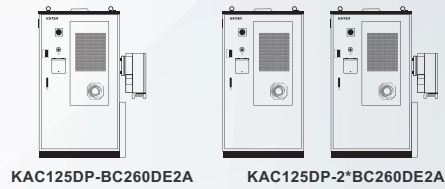
Off-grid Expandable up to 10*
ParallelOn-grid Expandable
up to 20 Parallel
- 

Compact design saves space
Cloud control with 24/7 monitoring



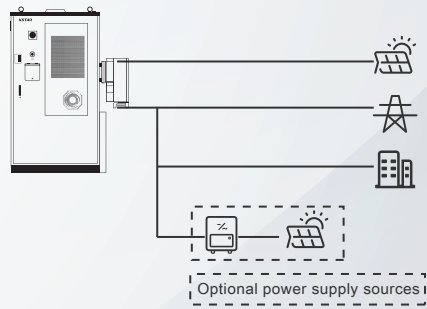
System Configuration:

KSTAR BluePulse PV+ESS All-in-One system features a KAC125DP2 series hybrid inverter and a BC260DE2A series battery cabinet, with the option to add an extra battery cabinet for expansion.

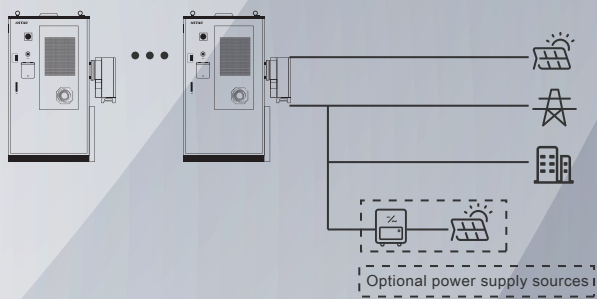


Applications:

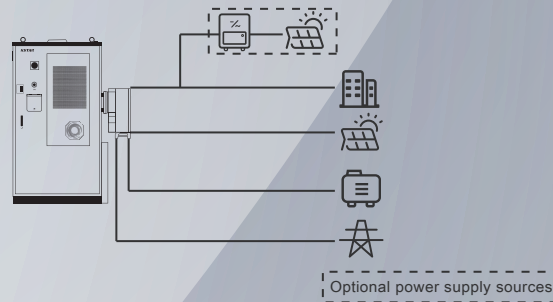
On-Grid Solution



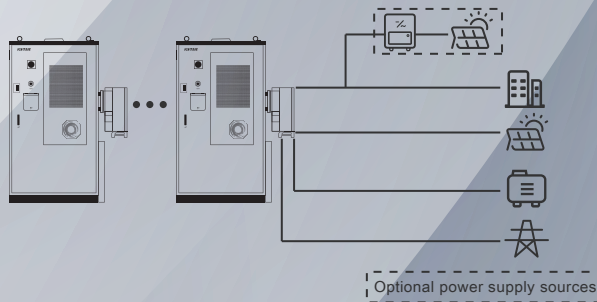
Up to 20 Unit System in Parallel



On/off Grid Solution & Off Grid Solution



Up to 10* Unit System in Parallel



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

Functions:

KSTAR BluePulse PV+ESS All-in-One system serves as a multiple energy source gateway.

- It efficiently controls and distributes power from various sources, including mains electricity, solar photovoltaics, and diesel generators. The system supports multiple grid-connected modes such as self-consumption, time-of-use, and peak shaving, tailored to diverse customer needs.
- In off-grid scenarios, it operates in complementary modes like PV-Battery or PV-Battery-Diesel Generator.
- In the event of a mains power outage, it seamlessly switches to backup mode in less than < 10ms, ensuring a continuous power supply for users.



- ▶ AC capacity ranges from 80KW~125KW
- ▶ Battery capacity ranges from 197KWH~260KWH



- ▶ On Grid
 - Export Limit
 - Import Limit
- ▶ Off Grid
- ▶ On/Off Grid Switching



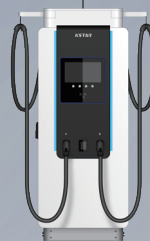
- ▶ >150% of the system capacity



- ▶ Support Both DC coupling and AC coupling PV-ESS Solution

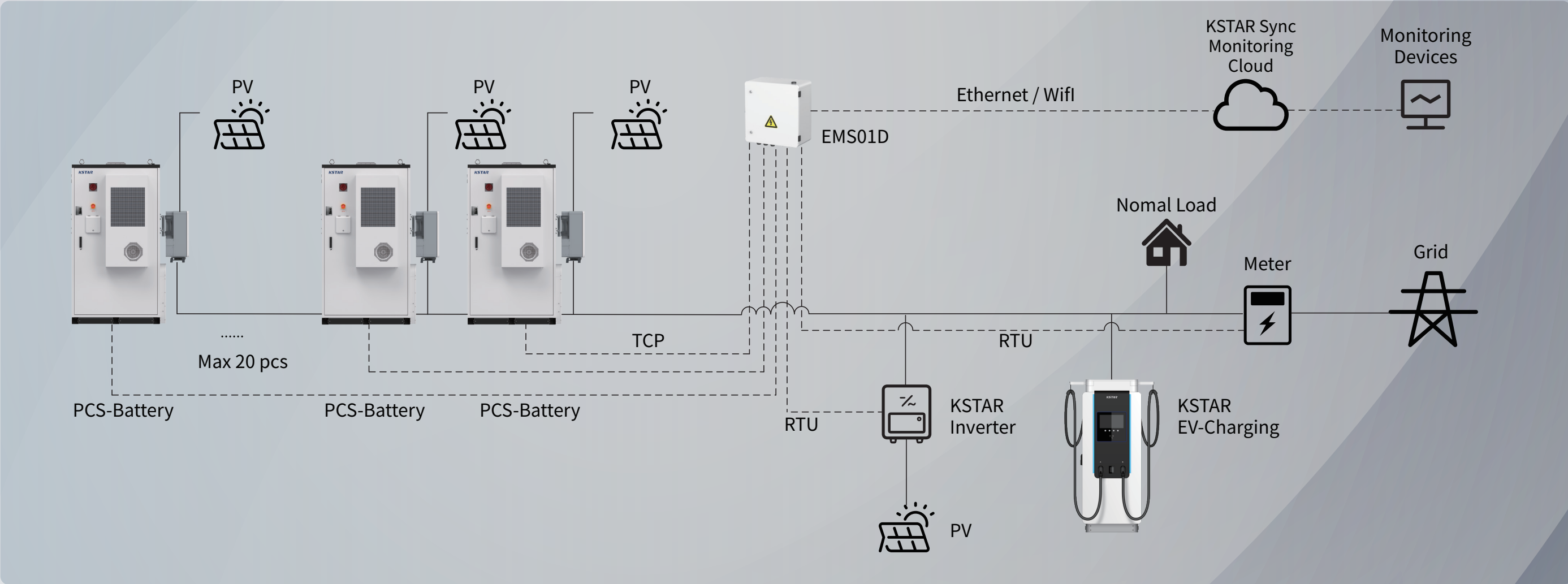


- ▶ Factory Load is supported
- ▶ Motor load shall be not more than 1/3 of the system capacity



- ▶ Support PV-ESS-EV Charger smart control

Integrated PV-ESS-Charging Solution



Why Choose KSTAR PV-BESS-EV Charging Solution?

► Maximise Cost Savings & Revenue

Use your own solar energy to power buildings and EVs
Peak shaving reduces demand charges and grid fees
Energy arbitrage: charge low, use or sell high
Create new revenue streams from EV charging services

► Reliable & Intelligent Operation

Advanced EMS optimises solar, storage, and charging in real time
Backup power capability for critical loads (optional)
Stabilises power quality and reduces grid dependency

► Fast Charging Without Grid Upgrades

Deliver high-power charging even with limited grid capacity
Battery buffers peak loads and avoids expensive grid reinforcement
Ideal for depots, retail parks, offices, and public charging sites

► Scalable & Easy to Deploy

Modular design — expand as demand grows
Compatible with AC and DC fast chargers
Suitable for commercial, industrial, and fleet applications
Designed for European grid standards and compliance

► Accelerate Your Decarbonisation Goals

Increase on-site renewable energy consumption
Reduce CO₂ emissions and energy footprint
Supports ESG targets and sustainability reporting
Future-proof against tightening EU regulations

► Remote Smart Control via KSTAR Sync

One-stop multi-site control of PV-ESS-Charging energy flow
Full visualization of PV linkage in the entire system
Intelligent PV integration, optimize energy use & maximize profits
Simplified site commissioning with automatic system recognition