

On-Grid or Off-Grid AC Combiner System

KS-233CG



EFFICIENT POWER ROUTING

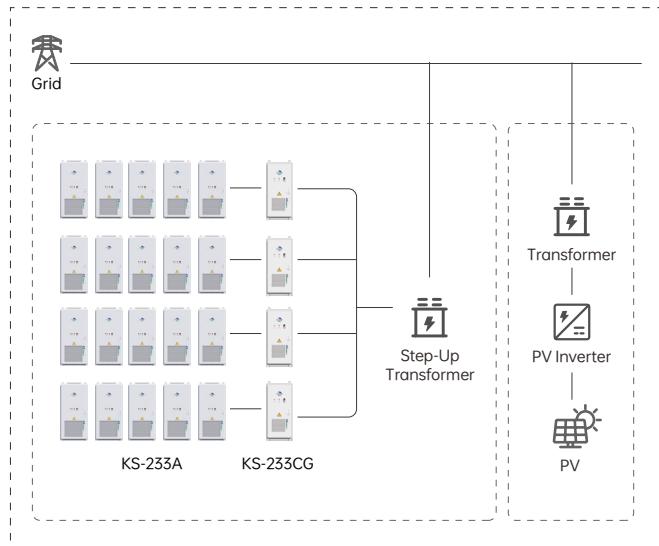
- Smart control for charge/discharge.
- Supports multi-loop battery & DC bus.



SECURE GRID INTERFACE

- Grid-tied cabinet without PCS.
- Stable, safe energy storage connection.

System Layout



SAFE AND RELIABLE

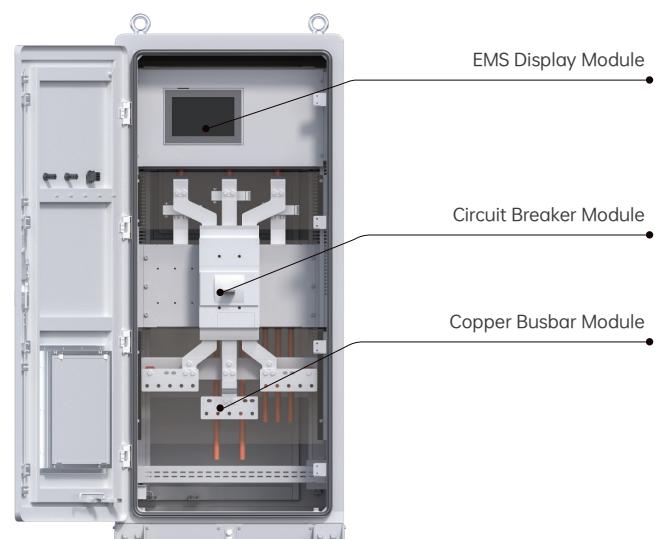
- IP54 design, minimize external environmental impact.
- Grid-tied cabinet without pcs.



SMART ENERGY MANAGEMENT

- HMI with modbus tcp/iec 61850.
- EMS/SCADA integration ready.

System Demonstration



● Product Specifications

Product Parameter

Input Voltage (Vac)	480
Access Channel	5
Output Channel	1
Rated Power (kW)	625
Rated Current(A)	751
Anti-backflow Protection for Power Grid	Functions Included
Pcs (Power Conversion System) Switch (A)	250
Grid Switch, Load Switch (A)	1000

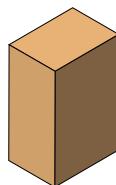
General Parameters

Combiner Model	K-CG625ACC01-US
IP Rating	IP54
Dimensions - W*D*H (in)	~31.5*42.52*70.87
Total Weight (lb)	~983
Operating Temperature(°C/°F)	-20~55/-4~131
Storage Temperature(°C/°F)	-20~35/-4~95
Relative Humidity (RH)	0~95%
Altitude	≤2000m / 6561ft
Noise Level @1m	<65 dB(A)
Communication Interface	RS485, CAN, LAN
Specifications Matched for Energy Storage Systems	233kWh ESS, Supports Parallel Connection of Up to 5 Units

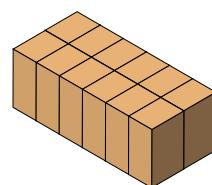
● Packaging & Shipping Details



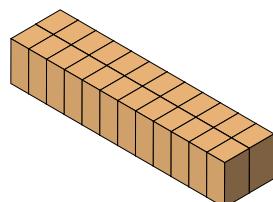
Product



1Set



20C



40C

~31.5*42.52*70.87 in
~983 lb

~49.21*42.5*74.8 in
~1212.5 lb

12 Set
~14544 lb

24 Set
~29088 lb

On/Off-Grid Switching AC Combiner System

KS-233AG



HIGH PERFORMANCE

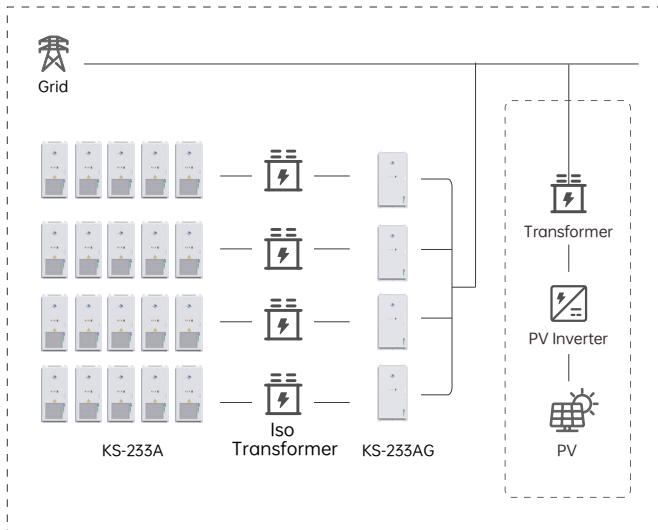
- Auto switchover between on-grid and off-grid.
- Ensures uninterrupted power during outages.



EXPANDABLE DESIGN

- Modular setup for easy install and scaling.
- Simplifies future upgrades and maintenance.

System Layout



SAFE AND RELIABLE

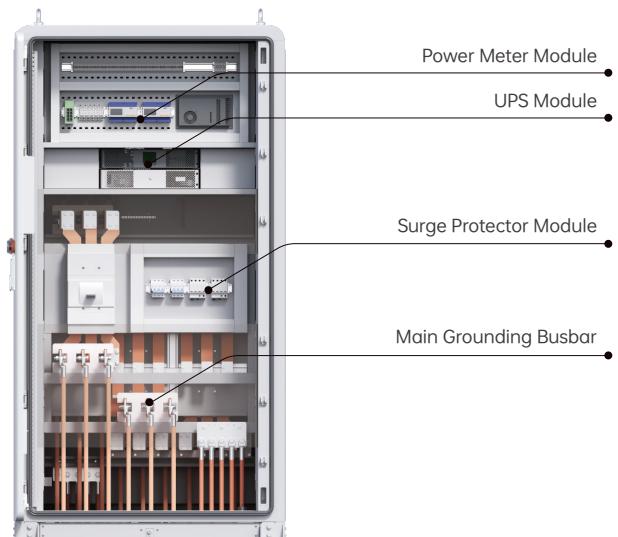
- IP54 design, minimize external environmental impact.
- Full-system safety assurance.



REMOTE CONTROL READY

- Real-time monitoring and remote operation.
- Enhances system management and diagnostics.

System Demonstration



● Product Specifications

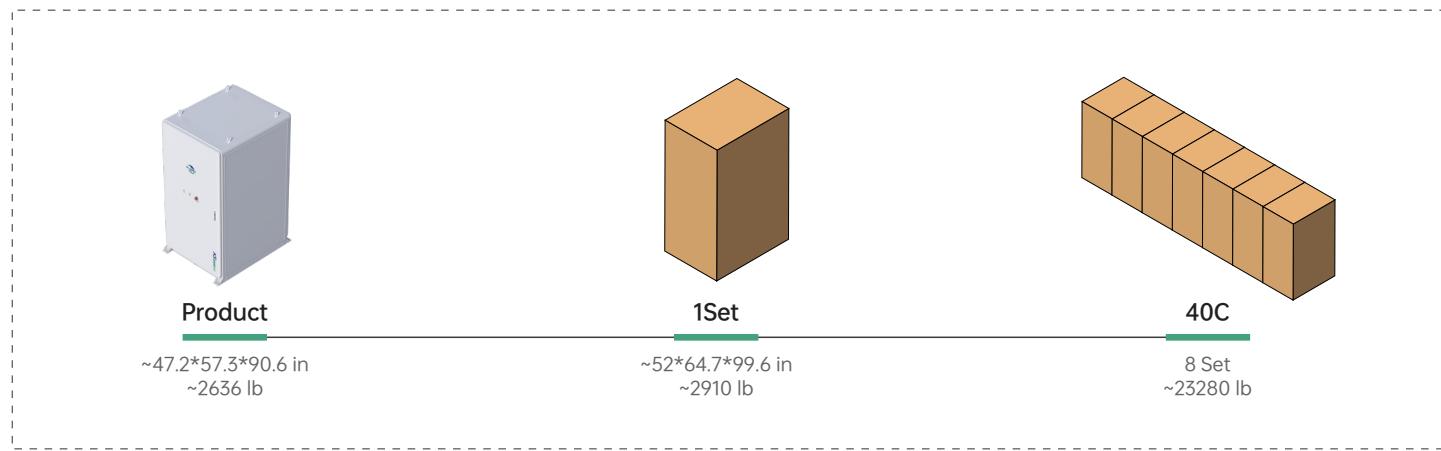
Product Parameter

Input Voltage (Vac)	480
Access Channel	5
Output Channel	1
Rated Power (kW)	625
Rated Current(A)	751
Grid-connected and Off-grid Switching Time	≤3min
Anti-backflow Protection for Power Grid	Functions Included
Pcs (Power Conversion System) Switch (A)	250
Grid Switch, Load Switch (A)	1000

General Parameters

Battery Model	K-AG625ACC01-US
IP Rating	IP54
Dimensions - W*D*H (in)	47.2*57.3*90.6
Total Weight (lb)	~2636
Operating Temperature (°C/°F)	-20~55/-4~131
Storage Temperature (°C/°F)	-20~35/-4~95
Relative Humidity (RH)	0~95%
Altitude	≤2000m/6561ft
Noise Level @1m	<65 dB(A)
Communication Interface	RS485, CAN, LAN
Specifications Matched for Energy Storage Systems	233kWh ESS, Supports Parallel Connection of Up to 5 Units

● Packaging & Shipping Details



MPPT DC Combiner System

KS-600MPC



ADVANCED MPPT TRACKING

- Multi-channel tracking for maximum power point.
- Improves PV efficiency in all conditions.



COMPLETE DC PROTECTION

- Polarity, voltage, current & surge protection.
- Ensures safe and stable operation.



DYNAMIC POWER CONTROL

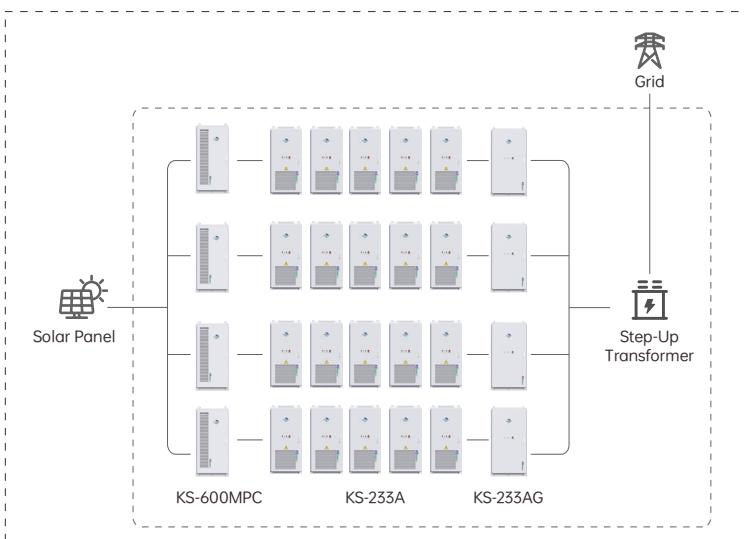
- Seamless PCS & EMS integration.
- Optimizes energy flow and output.



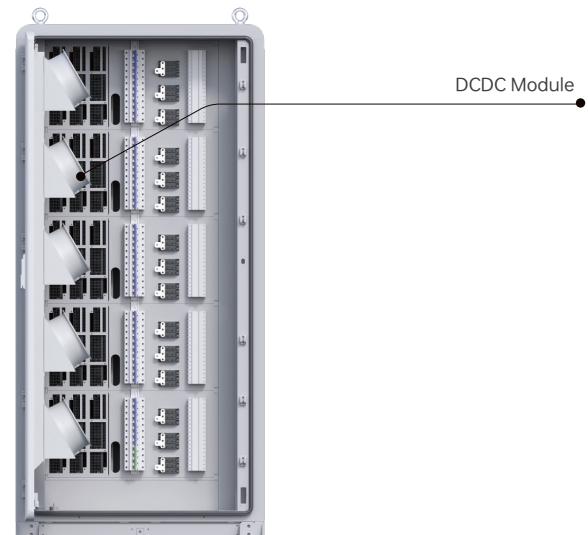
ENHANCED SYSTEM SAFETY

- IP54 design, minimize external environmental impact.
- Boosts long-term system reliability.

System Layout



System Demonstration



● Product Specifications

PV Input

Input Voltage (Vdc)	400~750
The Max. Static Voltage Borneunder No Operation (Vdc)	850
Rated Voltage (Vdc)	750
MPPT Operating Voltage Range (Vdc)	400~750
MPPT Full Load Voltage Range (Vdc)	400~750
MPPT Starting Voltage (V)	400
MPPT Efficiency	95.50%
Max. Input Current (Adc)	110*15
Number of MPPT	15
No. of PV Strings per MPP Trackers	6

DC Output

Individual Module Output Power(kW)	40
Max. Number of Modules	15
Total Output Power (kW)	600
Output Voltage Range (Vdc)	50 ~ 1000
Output Current Range (Adc)	0~133.3@Per MPPT
Voltage Regulation Accuracy	<±0.5% (150~1000V, 0~20MHz)
Precision of Steady Current	≤±1% (Output load 20%~100%)
Voltage Ripple Factor	≤1%

General Parameters

Product Model	K-MPC600PVC01-US
Type of Cooling	Forced Air-cooling
Dimensions - W*D*H (in)	43.31*37.8*90.5
Total Weight (lb)	~2866
Communication Interface	CAN bus, LAN
Altitude	≤2000m/6561ft
Noise Level @1m	<75 dB(A)
IP Rating	IP54
Operating Temperature (°C/°F)	-20~55/-4~131 (above 55°C/131°F needs to be reduced)
Storage Temperature (°C/°F)	-20~35/-4~95
Relative Humidity	≤95%RH, non-condensing

● Packaging & Shipping Details



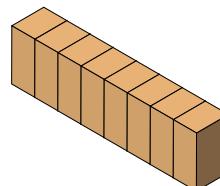
Product

~43.31*37.8*90.5 in
~2866 lb



1Set

~47.2*43.3*94.5 in
~3086 lb



40C

8 Set
~24688 lb