

## 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.



### SAFE AND RELIABLE

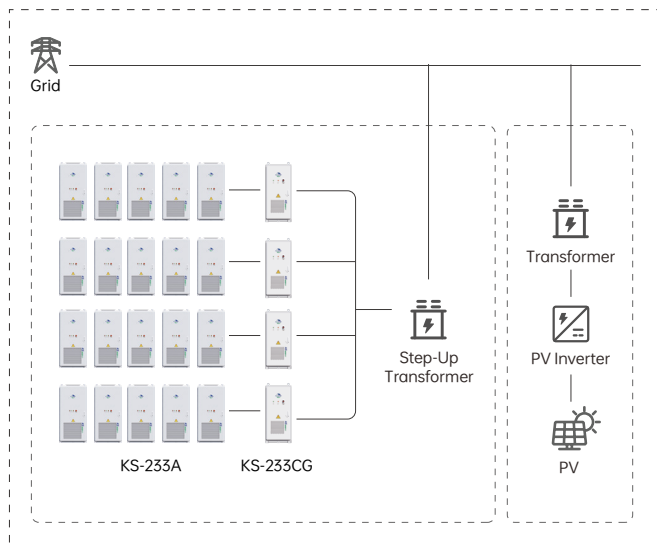
- IP54 design, minimize external environmental impact.
- Grid-tied cabinet without pcs.



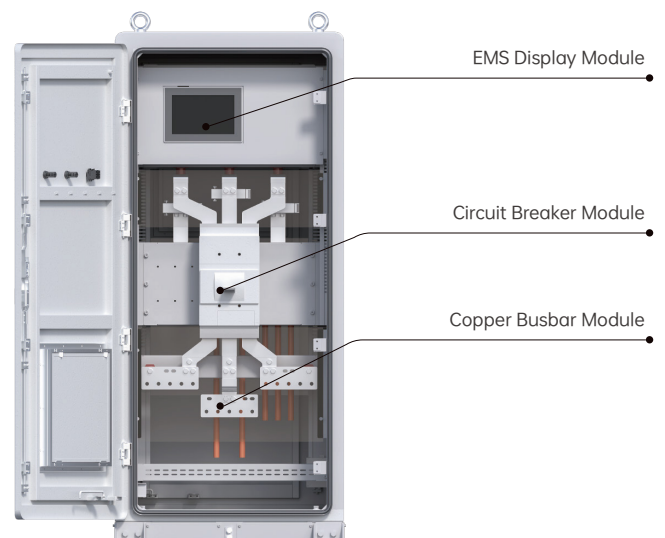
### SMART ENERGY MANAGEMENT

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

## System Layout



## System Demonstration



● Product Specifications

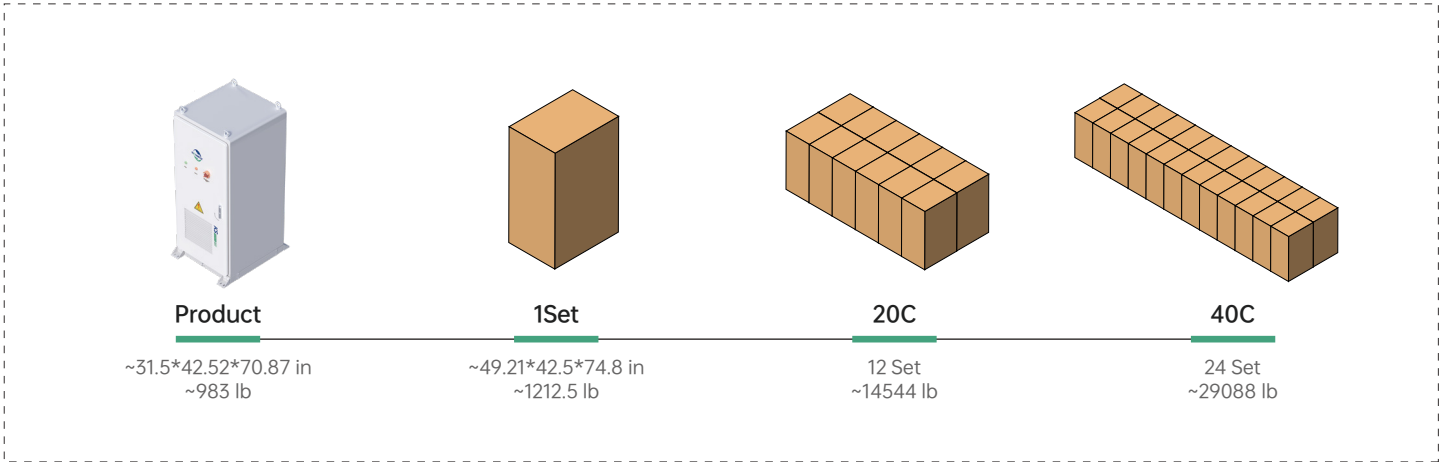
Product Parameter

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



## 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.



### SAFE AND RELIABLE

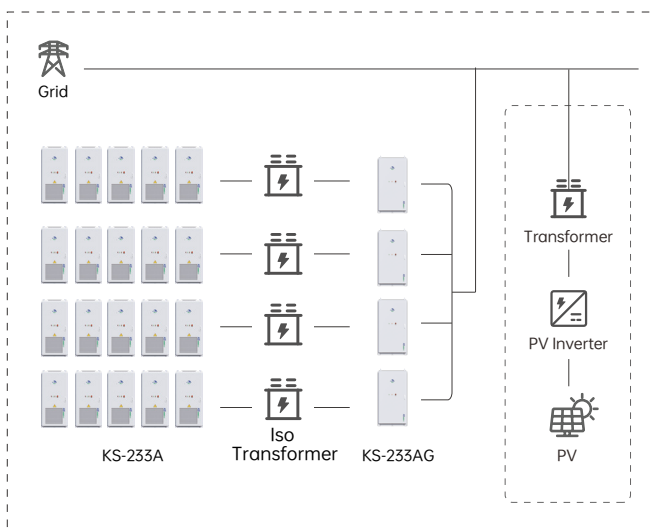
- IP54 design, minimize external environmental impact.
- Full-system safety assurance.



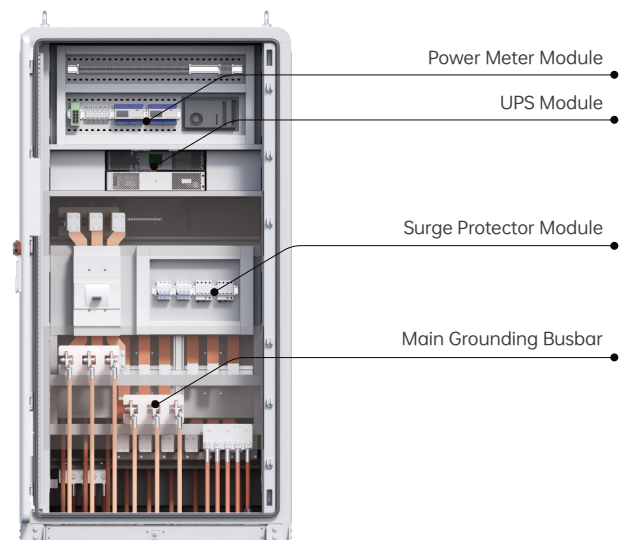
### REMOTE CONTROL READY

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

## System Layout




## System Demonstration



● **Product Specifications**

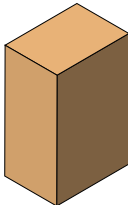
Product Parameter	
Input Voltage (Vac)	480
Access Channel	5
Output Channel	1
Rated Power (kW)	625
Rated Current(A)	751
Grid-connected and Off-grid Switching Time	≤3min
Anti-backflow Protection for Power Grid	Functions Included
Pcs (Power Conversion System) Switch (A)	250
Grid Switch, Load Switch (A)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



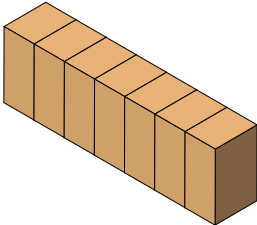
**Product**

~47.2\*57.3\*90.6 in  
~2636 lb



**1Set**

~52\*64.7\*99.6 in  
~2910 lb



**40C**

8 Set  
~23280 lb

## 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

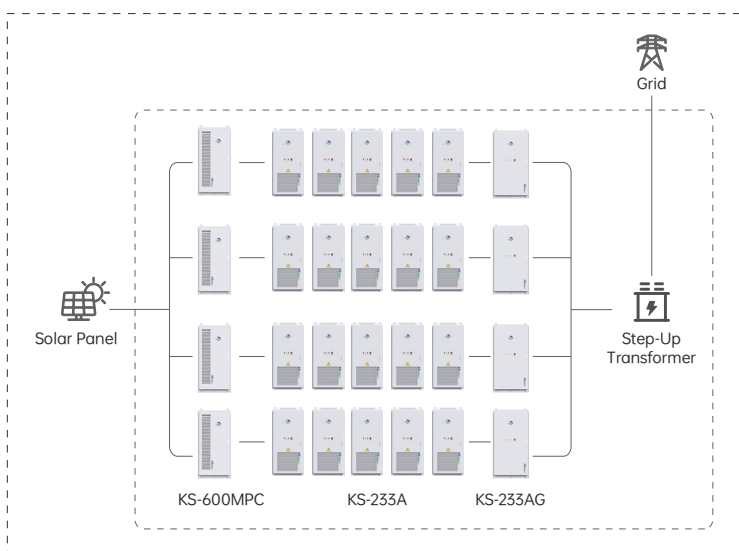
- Seamless PCS & EMS integration.
- Optimizes energy flow and output.



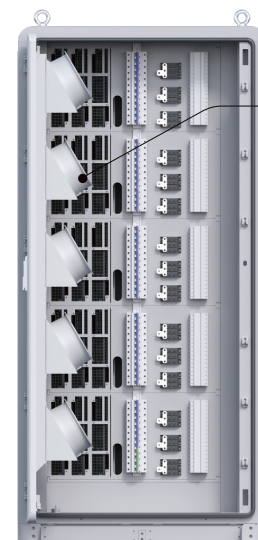
### ENHANCED SYSTEM SAFETY

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

## System Layout



## System Demonstration



DCDC Module

## ● Product Specifications

### PV Input

Input Voltage (Vdc)	400~750
The Max. Static Voltage Borne under 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%(Outputload 20%~100%)
Voltage Ripple Factor	≤1%

### General Parameters

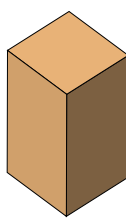
Product Model	K-MPC600PVC01-US
Type of Cooling	Forced Air-cooling
Dimensions - W*D*H (in)	43.31*37.8*90.5
Total Weight (lb)	~2866
Communication Interface	CAN bus, LAN
Altitude	≤2000m/6561ft
Noise Level @1m	<75 dB(A)
IP Rating	IP54
Operating Temperature (°C/°F)	-20~55/-4~131 (above 55°C/131°F needs to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

## ● Packaging & Shipping Details



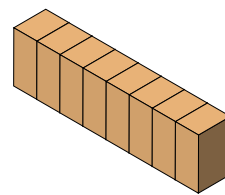
**Product**

~43.31\*37.8\*90.5 in  
~2866 lb



**1Set**

~47.2\*43.3\*94.5 in  
~3086 lb



**40C**

8 Set  
~24688 lb