Solis Storage

Engineered for Simplicity



EverCore

SolisStorage C&I Energy Storage System

Safety Guarantee | Better Returns | Flexible Application



261kWh System

125K inverter & 261kWh battery

- 261kWh, 314Ah, 1P20S, 13 Pack (IP20), 0.5C

Compatible grid types:

- 400V Grid:
  Inverter: 80K/100K/125K

100/120kWh System

50K-60k inverter & 100/120kWh battery

- 100kWh, 314Ah, 1P20S, 5 Pack (IP20), 0.5C
- 120kWh, 314Ah, 1P20S, 6 Pack (IP20), 0.5C

Compatible grid types:

- 400V Grid:
  Inverter: 29.9K/30K/37.5K/40K/49K/50K/60K

Models	EverCore-100kWh-50kW-NV	EverCore-120kWh-60kW-NV	EverCore-261kWh-125kW-NV
System			
Rated energy capacity	100.5 kWh	120.6 kWh	261.2 kWh
Max. cycle rate	0.5 P		
Max. cycle efficiency ①	89%		
Usable energy capacity ②	99.3kWh	119.2kWh	258.3kWh
Dimensions (W × H × D)	1250 × 2030 × 1540 mm		1850 × 2230 × 1600 mm
Dimensions (without inverter) (W × H × D)	950 × 2030 × 1540 mm		1400 × 2230 × 1600 mm
Weight	1490kg (Cabinet) + 73 kg (Inverter)	1630 kg (Cabinet) + 73kg (Inverter)	2900 kg (Cabinet) + 170 kg (Inverter)
Operating temperature range	-25 ~ +55°C		
Storage temperature range	0 ~ +40°C		
Operating humidity range	≤ 95% (non-condensing)		
Max. operation altitude	4000 m		
System temperature control mode	Industrial-grade air-conditioning (Cabinet); Air cooling (Pack); Intelligent fan-cooling (Inverter)		
Fire suppression mode	Default: Aerosol, Explosion relief valve, Fire water inlet Optional: Flammable gas detector, Explosion relief panel, Explosion-proof exhaust fan, Audible and visual alarm		
Ingress protection	IP55 (Cabinet) + IP66 (Inverter)		
Anti-corrosion class (Battery)	C4/C5 (Optional)		
Anti-corrosion class (Inverter)	C5		
Noise (rated operating condition)	70 dB(A) @ 1 m		75 dB(A) @ 1 m
Lightning protection	Type II (AC port), Type II (PV&Battery)		
Protection mode	Anti-islanding protection, residual current detection, insulation resistance detection, AC overcurrent protection, and AC cable connection protection		
Certification standards	IEC62619, IEC61000-6/2/4, IEC62040, IEC63056, IEC62477, UN38.3		
Battery			
Cell type	LFP 3.2 V / 314 Ah		
Cell cycle life ③	8000		
System battery configuration	1P100S	1P120S	1P260S
Rated voltage	320 V	384 V	832 V
Operating voltage range	290 ~ 360 V	348 ~ 432 V	754 ~ 936 V
Rated DC current	157 A		
Number of battery packs	5	6	13
Battery pack capacity	20.1 kWh		
Battery pack weight	138 kg		
Inverter			
Inverter model	S6-EH3P50K-H (21A)	S6-EH3P60K-H (21A)	S6-EH3P125K10-NV-YD-H
Rated output power	50 kW	60 kW	125 kW
Max. apparent output power@On-grid	50 kVA	60 kVA	125 kVA
Rated grid voltage	3/N/PE, 220 V / 380 V; 3/N/PE, 230 V / 400 V		
Rating grid frequency	50 Hz / 60 Hz		
AC grid frequency range	45 - 55 Hz / 55-65 Hz		
Rated output current	76 A / 72.2 A	91.2 A / 86.6 A	189.9 A / 180.4 A
Max. apparent output power@Off-grid	1.6 times of rated power, 2 s		1.6 times of rated power, 200 ms
Back-up switch time	< 10ms		
Power factor	> 0.99 (0.8 leading - 0.8 lagging)		
THDi / THDv (@linear load)	<2% / < 3%		
Max. usable PV Input Power	100 kW		250 kW
Recommended max. PV array size	100 kW		250 kW
Max. input voltage	1000 V		
Rated voltage	600 V		
Start-up voltage	180 V		
MPPT voltage range	150 - 850 V		150 - 950 V
Max. input current	4 × 42A		10 × 42 A
Max. short circuit current	4 × 60 A		10 × 60 A
MPPT number / Max. input strings number	4 / 8		10 / 20
Communication	Inverter interface: CAN, RS485, LAN Dongle interface: Wifi+LAN (Default), Cellular (Optional)		
Max. parallel quantity (off-grid)	10		

① Rated operating condition: Based on cell test condition of 25±2°C, 0.5P charge and discharge rate, and the AC output voltage is 400 Vac.
② 30°C~35°C, 0.3C, 100%DOD, Within one month from the date of manufacture.
③ This is provided by the battery cell manufacturer. Based on cell test condition of 25±2°C , 0.5P charge and discharge rate and SOH=70%.

Safety & Reliable Guarantee

1. 15-level safety protection across cell, pack, and system



1 Pressure release valve
2 All-round temperature monitoring
3 Aerosol (Pack level) [1]
4 Insulation and heat isolation layer [2]
5 Thermal detection
6 Smoke detection
7 Flammable gas detector (optional)
8 Audible and visual alarm (optional)
9 Water immersion sensor
10 Humidity detection
11 Aerosol (Cabinet level)
12 Explosion-proof exhaust fan (Optional)
13 Explosion relief panel (Optional)
14 Fire water inlet
15 Short circuit protection

[1] Achieves fire suppression at the pack level.

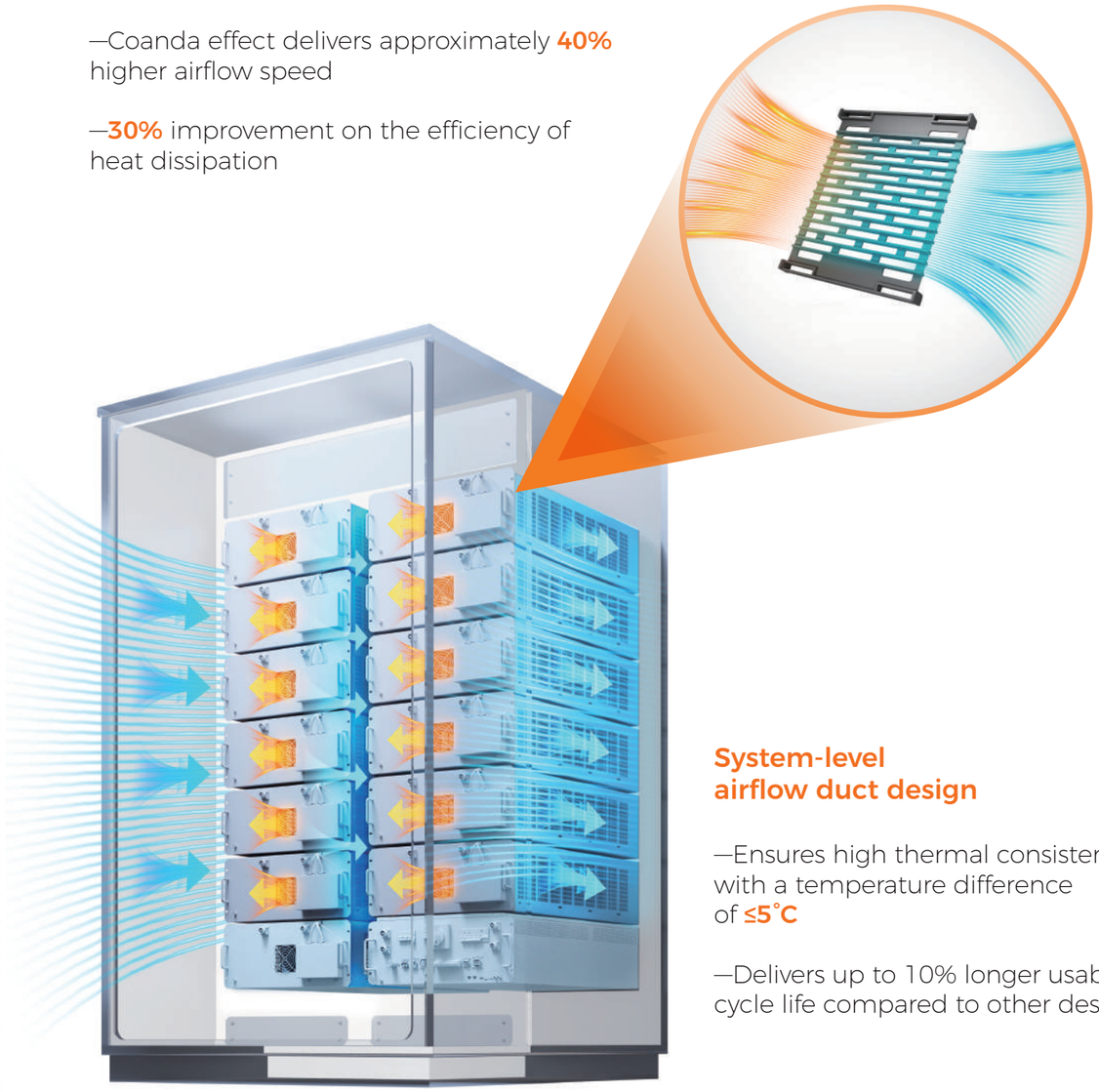
[2] Establishes pack-level thermal insulation, preventing high-temperature failure propagation.

2. Unique air-cooling design at both pack & system level, ensure highly consistent thermal management across the battery system

Single-cell Coanda airflow duct design

—Coanda effect delivers approximately **40%** higher airflow speed

—**30%** improvement on the efficiency of heat dissipation

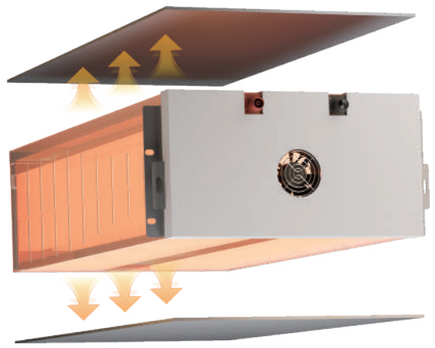


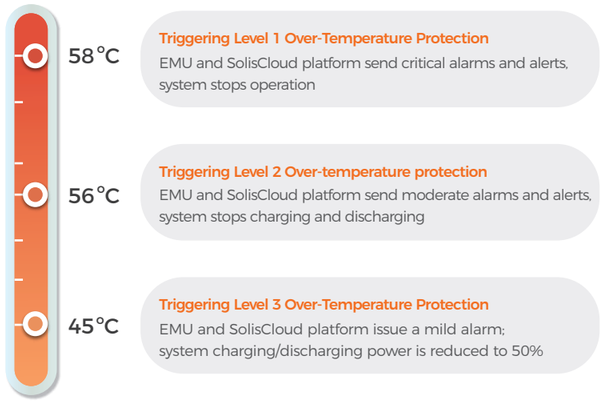
System-level airflow duct design

—Ensures high thermal consistency with a temperature difference of **≤5˚C**

—Delivers up to 10% longer usable cycle life compared to other designs

3. Features pack-level BMS with three-tier over-temperature protection and real-time monitoring of battery temperature via EMU and SolisCloud, ensuring precise protection, safety, and reliability





Triggering Level 1 Over-Temperature Protection
EMU and SolisCloud platform send critical alarms and alerts, system stops operation

Triggering Level 2 Over-temperature protection
EMU and SolisCloud platform send moderate alarms and alerts, system stops charging and discharging

Triggering Level 3 Over-Temperature Protection
EMU and SolisCloud platform issue a mild alarm; system charging/discharging power is reduced to 50%

4. Bypass function allows direct power supply to backup loads from the utility grid, ensuring uninterrupted operation during system maintenance



5. Excellent off-grid capability, with seamless switching (<10 ms) ensuring critical business operations are not interrupted

- Solis hybrid inverters have a built in STS function which can seamlessly transfer the backup port to be supported by PV and Battery
- Ensuring the continuous operation of critical loads



Note: When multiple inverters operate in parallel, transfer time is within 20 ms.

Better Returns

1. Uses TIER 1 battery modules, ensuring better return on investment



100% DOD

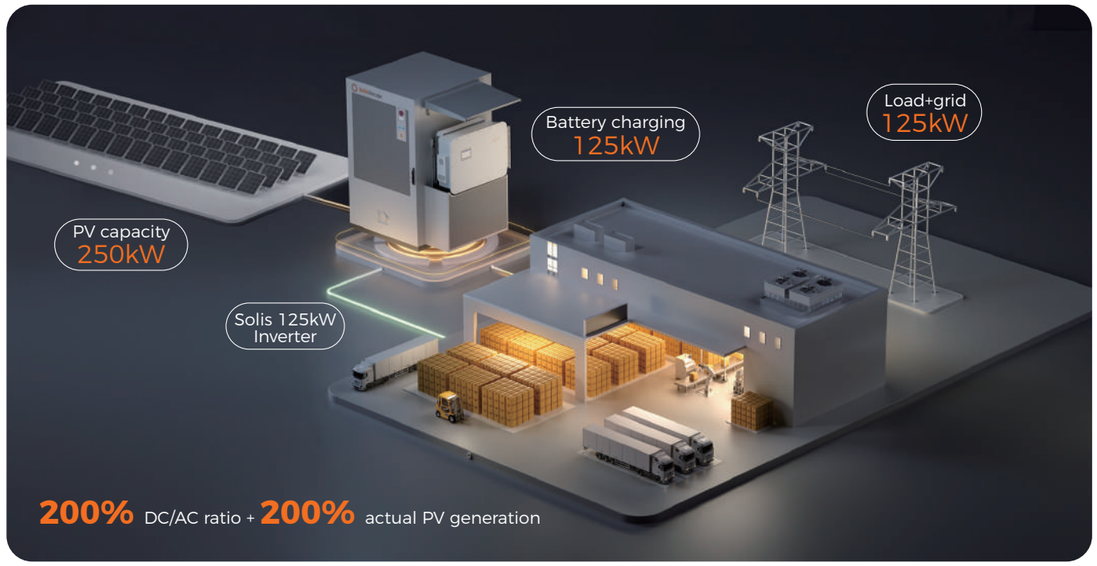
- For Europe and Australia region, increase the tradable electricity by 10% and boost the revenue by 10%. (Compared with 90% DOD of competitors)
- For the Asia, Africa and Latin America regions, this product can increase the backup power time by 10%
- When the SOC is 0%, the battery remains online and no additional wake-up is required

8,000 Battery cycles

- Engineered to exceed 8.000 battery cycles while still retaining 70% of the reated capacit

This is provided by the battery cell manufacturer. Based on cell test condition of 25±2℃ , 0.5P charge and discharge rate and SOH=70%.

2. Supports up to 2x rated PV input, maximizing solar energy utilization

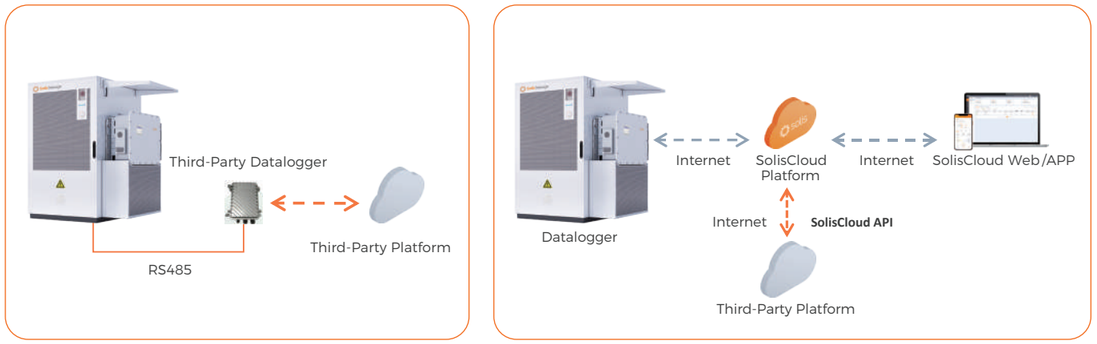


3. Provides dynamic reactive power compensation to improve grid power factor and reduce reactive power charges



4. FFR/FCR frequency response control via third-party controller

Offers rapid integration with 3rd party VPP/EMS providers via Modbus or API, enabling fast deployment and flexible control



5. AI integration and VPP readiness enable dynamic tariff optimization, minimizing electricity costs and unlocking additional revenue



Solis AI

Combines customer consumption patterns, TOU tariff data, weather insights and other inputs to intelligently automate battery charge and discharge cycles, delivering maximum financial return

6. 21A input current for next generation PV compatibility

Supports a maximum 21A string input current for seamless integration with the latest high-power and bi-facial PV modules, including 182/210 mm formats





7. Direct PV connection delivers higher efficiency and lower system cost

PV modules connect directly to the BESS, reducing efficiency losses on the photovoltaic side

*Existing PV system capacity needs to be smaller than the C&I Energy Storage System



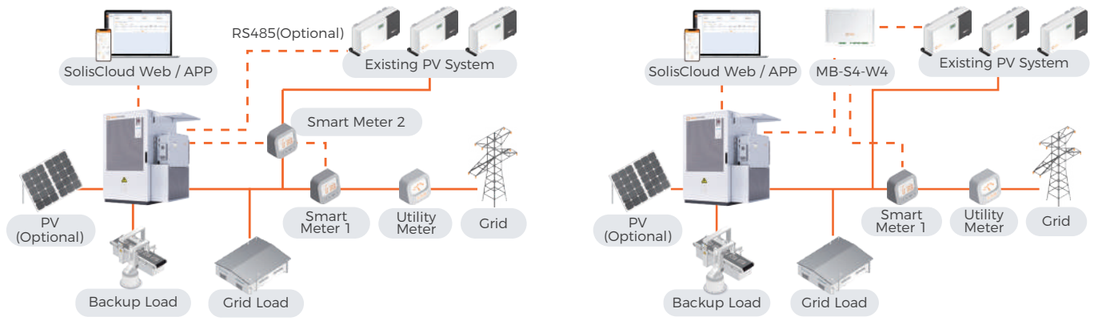
Flexible Application

1. Auto demand management, reducing demand fee / expanding consumption capacity

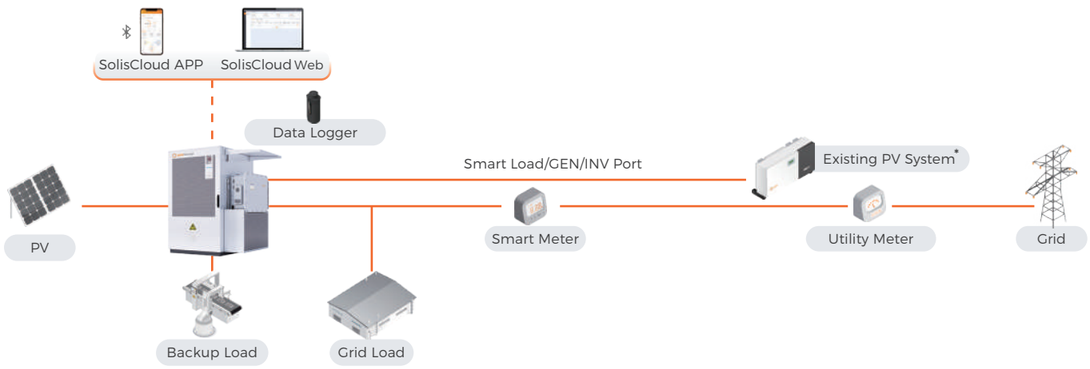


2. Supports retrofitting of existing PV systems, enhancing overall self-consumption

Grid-tied application: Simple integration, no need to modify the existing PV system wiring. Supports system level export power limit



Off-grid application: Continuous PV system operation even in off-grid conditions



Smart Load/GEN/INV Port connection to the grid-tied inverter during a utility outage:

- The Smart Load/GEN/INV Port provides a stable voltage source to ensure continuous operation of the grid-tied inverter.
- Frequency-shifting control adjusts the inverter's power output to maintain the balance between generation and consumption.

*Existing PV system capacity needs to be smaller than the C&I Energy Storage System

3. The battery cabinet and inverter unit are designed independently, making O&M efficient and flexible

- Hybrid inverter with an external integration design for easy maintenance
- Low failure rate and reduced maintenance costs throughout the system lifecycle





4. Works across 220 V, 400 V, and 500 V three-phase grids with no transformer needed – simplifying and accelerating installation

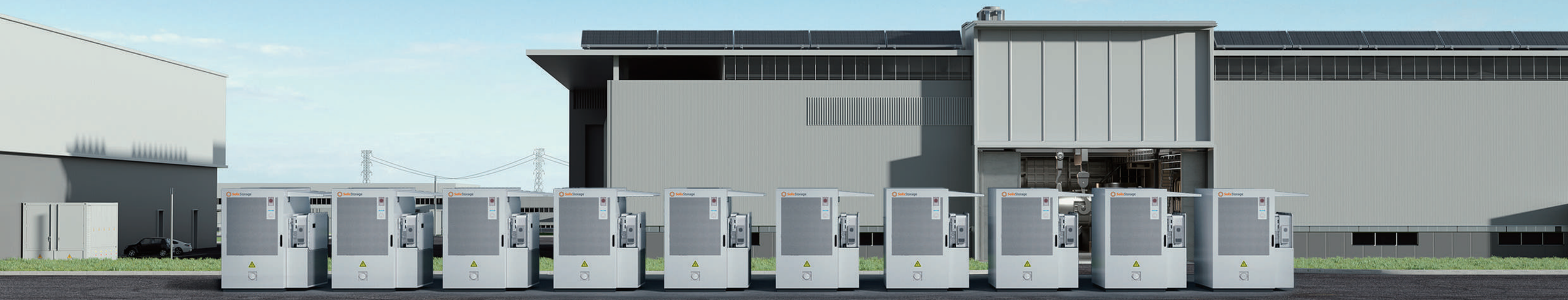
3P220V
3P400V
3P500V ※

All supported

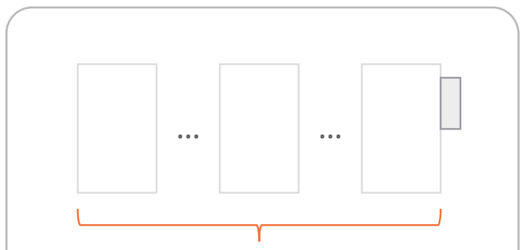


※ UL model recommended

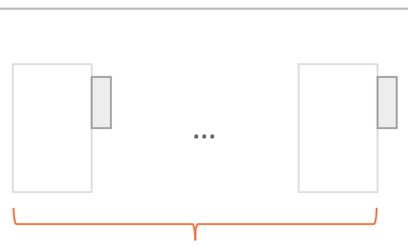
5. Flexible system expansion, up to 1.25MW/15.66MWh to meet growing energy needs



* when inverters in parallel >6 units, use of a Solis power distribution cabinet is recommended



Supports max.**6* battery cabinets** in parallel mode with a single inverter



Supports max.**10* inverters** in parallel mode on AC side

Solis' solution enables customers to invest incrementally based on their funding and requirements, with a smaller initial investment and a clear path for future upgrades, thereby reducing investment risk

Applicable Condition

- When more than six hybrid inverters are connected in parallel, we recommend using the Solis C&I Smart Hub for system integration. This provides a dedicated electrical cabinet to connect all components efficiently, reducing accessory costs.

- In addition, the Smart Hub maintains system switching times within 20 ms, ensuring uninterrupted power supply for C&I applications.

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