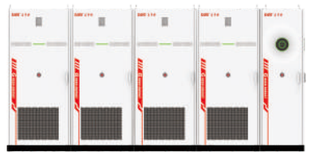
C&I Energy Storage System
EAPVESS130K261KWH-C

Diesel-PV-ESS I All-in-one

- High protection level: cabinet IP54, C4 anti-corrosion; Inverter IP66 protection, battery PACK IP67 protection, can be used in a variety of harsh scenarios
- High conversion efficiency: the PV-ESS inverter adopts SiC solution on a large scale, with the highest conversion efficiency reaching 98.2%, reducing the kWh cost
- Three-level fire-fighting strategy: Level 1 power off and shutdown protection, Level 2 perfluorohexanone gas start, Level 3 water spray fire-fighting to prevent re-ignition
- Intelligent monitoring: real-time intelligent power balance control, energy management and scheduling, information monitoring and early warning, safe and reliable system
- Modular design: the system consists of battery cabinet, power distribution cabinet, and EMS modules, which can be flexibly configured and support dynamic expansion
- Application scenarios: industrial and commercial energy storage, emergency backup power supply, Diesel-PV-ESS microgrid, etc.

System Expansion



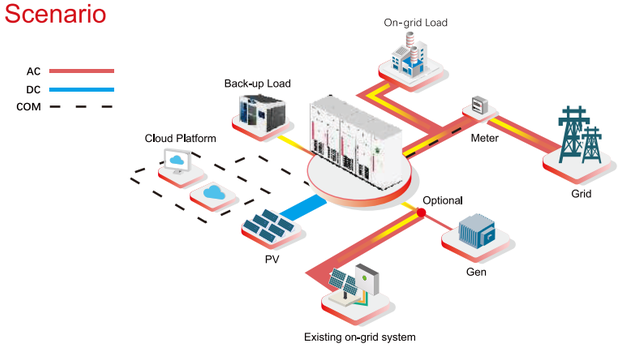
Flexible expansion of DC side
(1 distribution cabinet + 4 battery cabinets)
130kW/261-1044kWh system

4 parallel connections

4 parallel connections

Backup side AC 4 parallel connections
130kW/261kWh*4 system

Application Scenario



Specification

MODEL	EAPVESS130K261KWH-C
Battery parameters	
Cell	314Ah
Configuration	1P260S
Rated energy	261kWh
Rated voltage	832Vdc
Voltage range	728~949Vdc
Max. expandable quantity	4 clusters
PV parameters	
Max. input power	260kW
Max. input voltage	950Vdc
Rated input voltage	810Vdc
Starting voltage	220Vdc
Max. input/short-circuit current	52/55Hz
MPPT quantity	6
Max. number of MPPT strings	3
Grid parameters	
Rated input/output power	260/130kW
Voltage range	380/400Vac(-20%~20%), 3/N/PE
Rated input current	394A/376.8A
Rated output current	197A/188.4A
Power factor	>0.99(0.8 lead~0.8 lag)
THDi	<3%@rated power
Diesel engine parameters	
Rated power	130kW
Voltage range	380/400Vac(-20%~20%), 3/N/PE
Rated current	197A/188.4A
Backup parameters	
Rated power	130kW
Rated voltage	380/400Vac, 3/N/PE
Rated frequency	50/60Hz
Rated current	197A/188.4A
THDi	<3%@linear rated power
System general parameters	
On-grid and off-grid switching time	<20ms
Max. conversion efficiency	99%
Europe/MPPT efficiency	98.2%/99.9%
IP rating	Battery cabinet(IP54), battery pack(IP67), power distribution cabinet(IP20), PV-ESS inverter(IP65), power distribution box(IP55)
Operating temperature	-30~60℃(>45℃ derating)
Relative humidity	<95%RH(non-condensing)
Altitude	<4000m(>2000m derating)
Cooling method	Battery cabinet@Liquid cooling/PV-ESS inverter@air cooling
Noise	<65dB
Fire protection system	Cell level+cabinet level gas fire-fighting(perfluorohexanone)/aerosol+water fire-fighting
Wired/wireless communication	Ethernet(1 Modbus-TCP), RS485(1 Modbus-RTU)/4G/WIFI
Human-computer interaction	LED, APP, Web
Standards	EC 62477-1:2012+AMD1:2016; EN 62477-1:2012+A11:2014+A1:2017+A12:2021; EN IEC 61000-6-2:2019; EN 50549-2:2019+A1:2023; EN 50549-10:2022 Type B; EN IEC 61000-6-4:2021; EN 62920:2017/A1:2021; EN 50549-2:2019 + A1:2023+; EN 50549-10:2022 Type A
Dimensions(WxHxD)(mm)	1000x2250x1350@battery cabinet, 800x2250x1350@power distribution cabinet
Weight(kg)	≤2000@battery cabinet, ≤1000@power distribution cabinet