SUNARK

CubeArk-250kW-500kWh

Container Energy Storage System

CubeArk Series

- $LiFePO_4$ battery module, stable discharge platform, good safety performance, long cycle life;
- Three-level battery management system, support overcharge,over-discharge, over-voltage and other functional protection;
- Modular design, support elastic expansion and front maintenance;
- Comes with local monitoring EMS, which can remotely view system information;
- Optional with EMS (Customized microgrid energy management system, including energy storage, photovoltaic, grid, load, generator, video monitoring, etc.);

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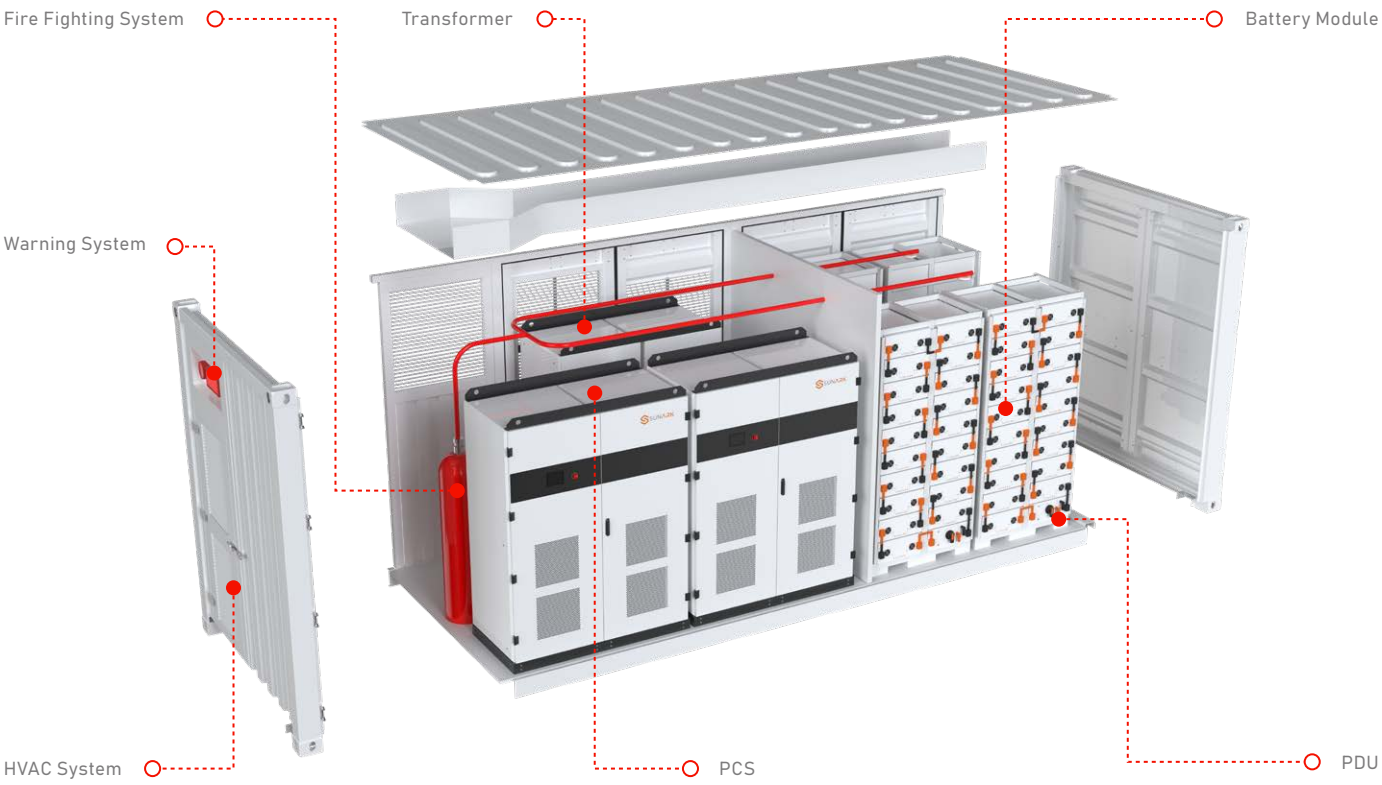
CubeArk Series

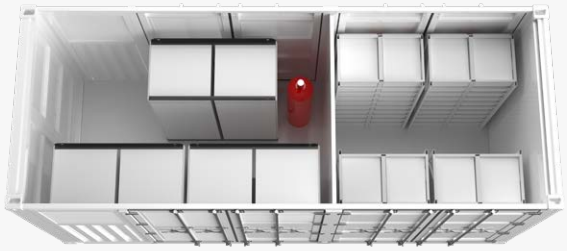


PCS、BMS、EMS Integrated

- Support PV, BAT, DG and GRID access
- Automatic switching between on/off-grid
- Support forklift and hoisting transportation
- Event and Caution Alarm
- Multiple Protections
- Real time and History Data Accumulation
- Dual Working Power Support

CubeArk Serise

A high-performance, all-in-one, containerized battery energy storage system developed by Sunark , provides C&I users with the intelligent and reliable solution to optimize energy efficiency and resilience. BESS related products are useful for a wide range of applications which covers commercial & industrial,renewable energy and grid services.



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CubeArk Series

MODULE	CubeArk-250KW-500KWH
DC Data	
Cell type	Prismatic LFP
Cell brand	HiGEE
Celle life cycle	>8,000 cycles@0.5C,25°C
Cell spec	3.2V/280Ah
String configuration	1P192S
Number of strings	3
String rated energy capacity	172kWh
DC rated energy capacity	516kWh
Rated voltage	614.4V
Vokage range	538V~690V
BMS communication interface	Ethernet, CAN, RS485
BMS communication protocol	Modbus RTU, Modbus TCP
AC Data	
Rated AC power	250kW
Maximum AC power	275kW
Rated AC voltage	400V
AC PF	1 leading ~ 1 lagging
Output THDi	⩽3%
Nominal grid frequency	50/60Hz
Isolation method	3 Phase 4 Line Transformer
General Data	
Dimension w/o clearances (L*W*H)	6,058*2,438*2,591mm
Weight of whole system	<30MT
Degree of protection	IP65
Operating temperature range	-20~65°C
Relative humidity	0~95% (non-condensing)
Max working altitude	3,000m/9,842ft
Cooling concept of DC hatch	HAVC
Cooling concept of PCS hatch	Forced air cooling
Fire extinguisher system	HFC bottle group
Communication interfaces	RS485, Ethernet, GPRS
Communication protocols	Modbus RTU, Modbus TCP

* In case of changes in product dimensions and parameters, the latest information from our company shall prevail without prior notice.

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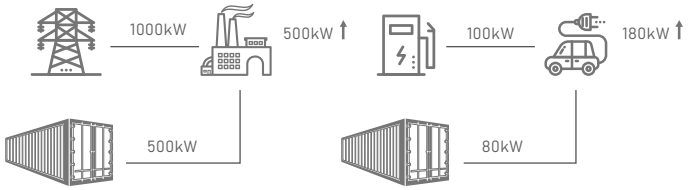
Application Scenarios

Power Expansion

Discharge when the distribution capacity cannot meet the load demand to achieve the effect of virtual capacity expansion.

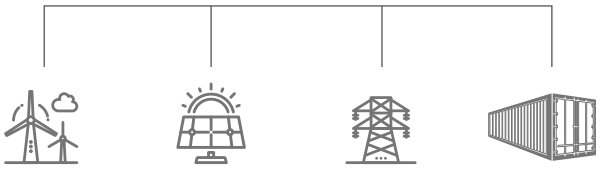
Factory Charging Station



Wind and Solar Energy Consumption

Storing the surplus power emitted by the PV during the day for discharging at night.

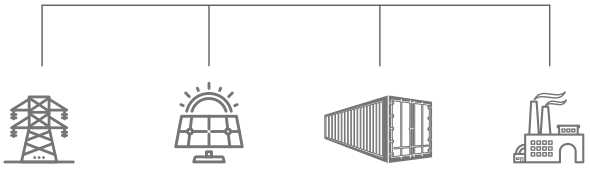
PV Power Station Wind Power Station Hybrid Charging



Solar & Energy Microgrid

Can realize electricity saving. Applications such as backup power supply provide stable power in areas that cannot be connected to the grid, such as islands and mountainous areas.

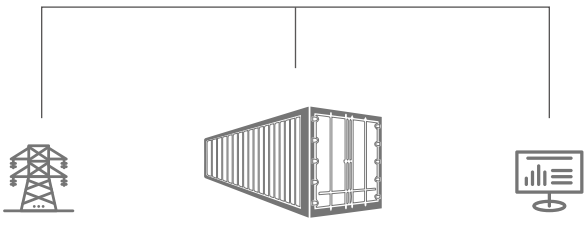
Factory Charging Station Remote Area



Demand Response

Enable power grid dispatching, entitle dispatching subsidies.

Factory Office Block Shopping Mall



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