**ballastIQ_cube-1MW-3MWh**

Container Energy Storage System

ballastIQ_cube Series

- Modular Power System Platform with a stable discharge platform, excellent safety performance and long cycle life.
- The BMS battery management system supports overcharge, over-discharge, over-voltage and other functional protections.
- Modular design supports expansion and maintenance.
- Equipped with ballastIQ_integrate which can remotely view and manage system parameters.
- Optional with EMS (Customized microgrid energy management system, including energy storage, photovoltaic, grid, load, generator, video monitoring, etc.).

ballastIQ_cube Series

Fire Suppression System

Warning System

HVAC System

Transformer

PCS

Battery Module

PDU
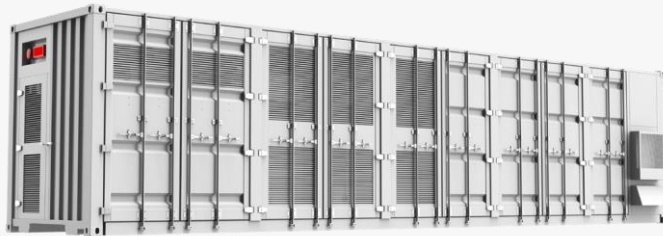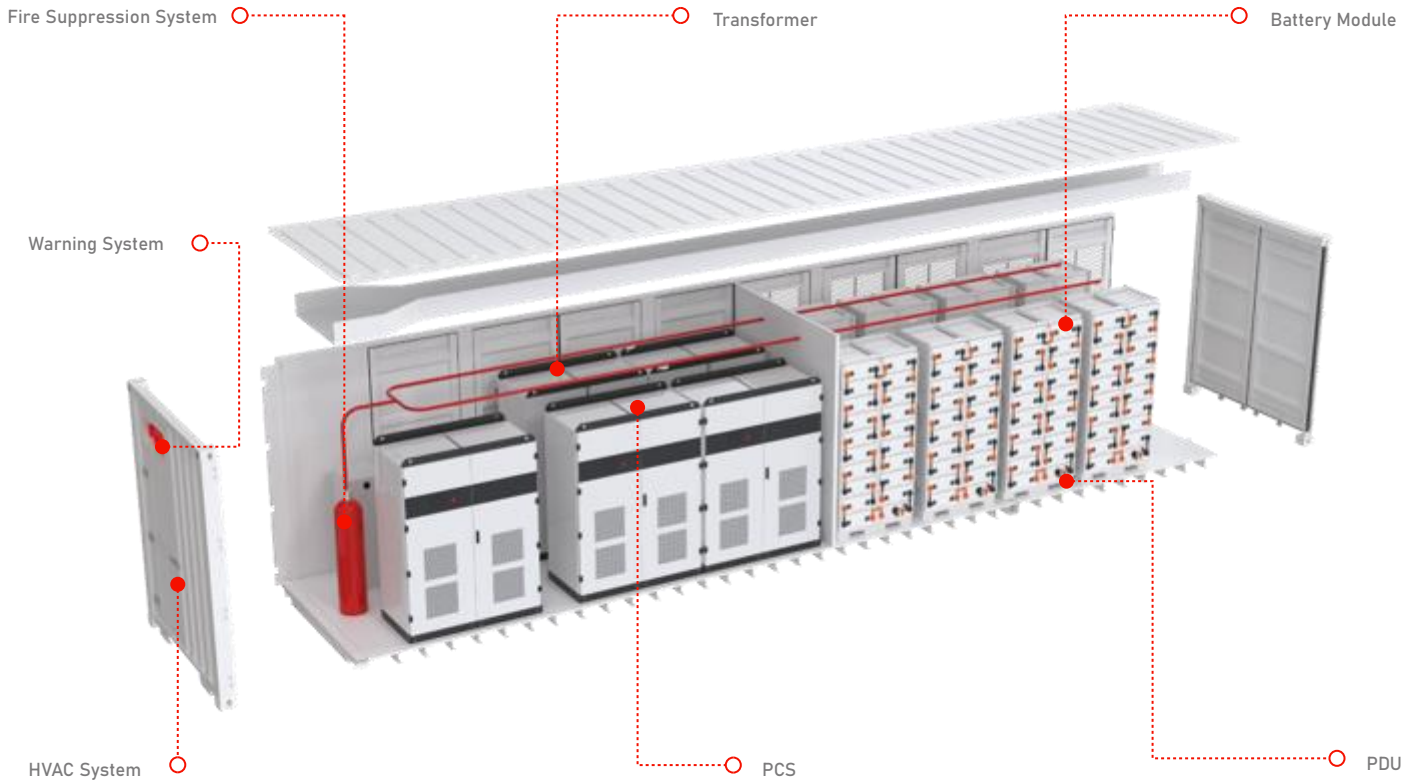
PCS　BMS　EMS Integrated

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

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ballastIQ_cube:

A high-performance, all-in-one, containerized battery energy storage system developed by ballastIQ. Provides C&I clients with an 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.

Specifications:

MODULE	CubeArk-1MW-3MWH
DC Data	
Cell type	Prismatic LFP
Cell brand	EvE
Celle life cycle	>6,000 cycles@0.5C,25°C
Cell spec	3.2V/280Ah
String configuration	1P224S
Number of strings	15
String rated energy capacity	200kWh
DC rated energy capacity	3000kWh
Rated voltage	716.8V
Voltage range	627.2V~795.2V
BMS communication interface	Ethernet, CAN, RS485
BMS communication protocol	Modbus RTU, Modbus TCP
AC Data	
Rated AC power	2*500kW
Maximum AC power	2*550kW
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)	12,116*2,438*2, 896mm
Weight of whole system	<50MT
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

Applications:

Power Expansion

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

Factory **Charging Station**

1000kW — 500kW ↑ — 100kW — 180kW ↑

500kW   80kW

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**