



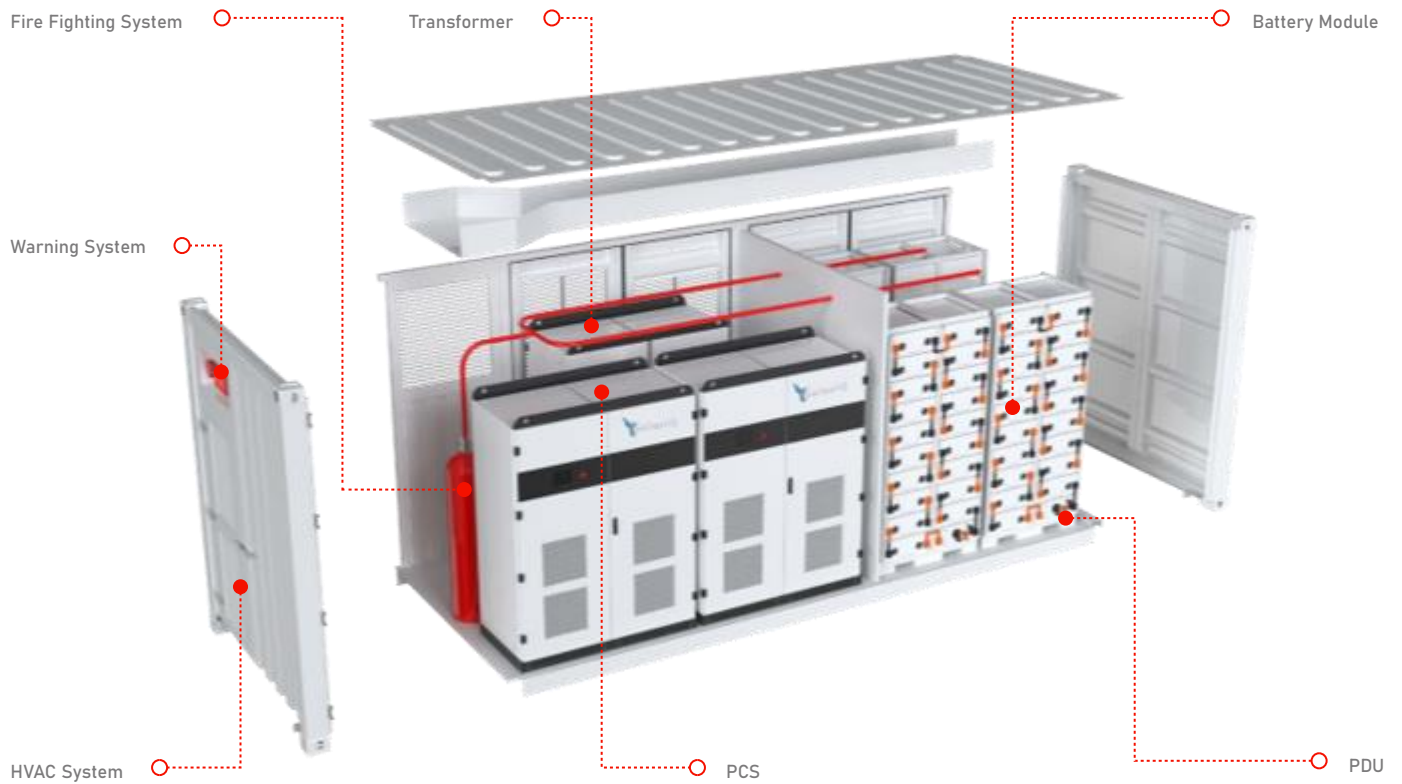
ballastIQ_facility - 500kW-1000kWh

Container ESS

Facility 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.).

Facility 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

Facility Series

A high-performance, all-in-one, containerized battery energy storage system developed by ballastIQ, 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.



Facility Series

MODULE	CubeArk-500K-1MWH
DC Data	
Cell type	Prismatic LFP
Cell brand	EvE
Cell life cycle	>8,000 cycles@0.5C,25°C
Cell spec	3.2V/280Ah
String configuration	1P224S
Number of strings	5
String rated energy capacity	200kWh
DC rated energy capacity	1000kWh
Rated AC voltage	716.8V
Vokage range	628V~806V
BMS communication interface	Ethernet, CAN, RS485
BMS communication protocol	Modbus RTU, Modbus TCP
AC Data	
Rated AC power	500kW
Maximum AC power	550kW
Rated AC vokage	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

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