

Epoch-B5015-20L

Containerised Energy Storage System

Epoch-B5015-20L is a new type of containerised energy storage system developed by LEOCH, which is composed of battery container box, automatic fire-fighting system, intelligent liquid-cooling temperature control system, dehumidification system, video monitoring system, battery storage system (including battery racks, battery packs, high-voltage box), convergence control cabinet and other equipment. It adopts advanced battery management system, featuring high efficiency in charging, discharging and thermal management, multiple safety designs and small footprint. It can be applied in many fields such as electric power, industry and commerce, green transport and data centre.



High Energy Efficiency

Single Cluster DC Charge/Discharge Energy Efficiency >95%.



Safe and Reliable

High dustproof and waterproof, IP55 to ensure the safety and reliability of electrical components and equipment; class B functional safety, double fault protection; high safety, one cluster management, no loop current.



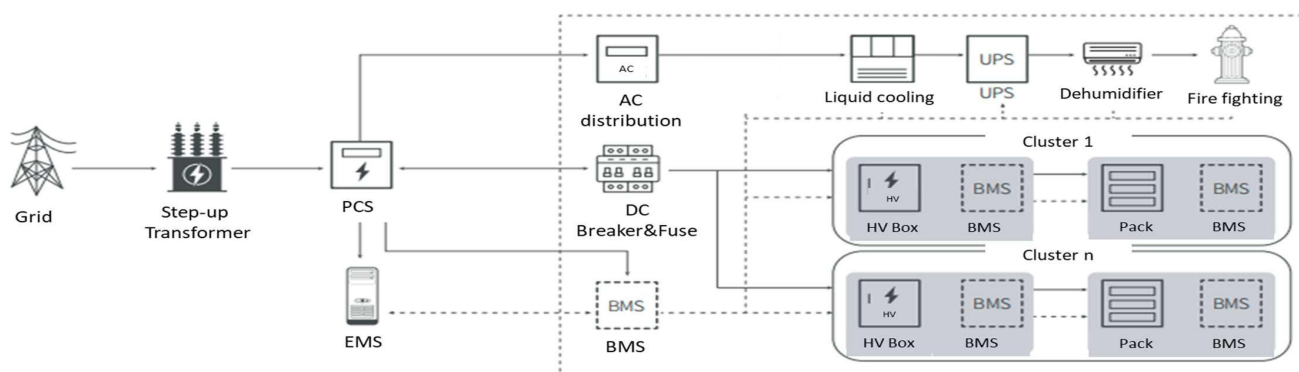
Long Life

8000 cycles of the battery cell; intelligent charge/discharge management to extend system life; intelligent thermal management design to increase battery cycle life by 30%.



Easy Configuration

Modular design for easy maintenance.



System Model	Epoch-B5015-20L
Battery Parameters	
Rated Voltage	1331.2V
Working Voltage	1164.8~1476.8 V
Single Cell	314Ah/3.2V
Battery Module	314Ah/166.4V
Battery Clusters	314Ah/1331.2V
Battery Storage Systems	3768Ah/1331.2V
Operation Temperature Range	-20~55
Storage Temperature Range	-20~50
Operation Humidity	0%~95%
Standard Charge/Discharge Power	0.5P
Balancing Mode	Passive Balancing
DC Side Parameters	
Cell Type	LFP314
Grouped Configurations	1P52S
Cluster Configuration	1P416S /8 modules
System Configuration	12*1P416S
Nominal Battery Capacity	5015kWh
Battery Voltage Range	1164.8~1476.8Vdc
Charge/Discharge Ratio	0.5C
Rated Power	-
Anti-Corrosion Grade	C3~C5
Dimension(W*D*H)	6058*2438*2896mm
Weight	About 43t
Ingress Protection	IP55
Altitude	2000m(Derating over 2000 meters)
Cooling Method	Intelligent Liquid Cooling
Fire Protection System	Aerosol Fire Fighting + Natural Gas Detection + Sprinkler Fire Fighting + Ventilation and Explosion Relief System
Communication Interface	RS485、CAN、LAN
Certifications	UL1973,UL9540A,FCC,EC62619,IEC 62477-1,CE-EMC, (EU)2023/1542,UN3536,IP55,IP67,IEC63056,IEC62933-5-2