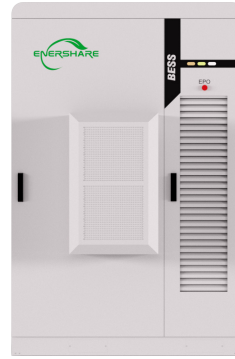


Enerbrick2.0 Integrated Outdoor Battery Energy Storage Cabinet

Design Highlights

1. All-in-One and highly integrated
2. Modular cabinet for flexible configuration
Max up to 60 Nos in Parallel
3. Support DC coupling with solar
4. Separate Air-Duct design Pack
double bolt insulating installation
5. Max 1C charge and discharge
6. Plug & Play for ready to use



	Enerbrick2.0 -S	Enerbrick2.0 -M	Enerbrick2.0 -L
Key Parameters	Capacity:46.08kWh~69.12kWh Rated Power: 30kW, 60kW Grid Voltage: AC400V 50Hz Size: 1350mm*1050mm*2100mm	Capacity: 107.52kWh ~ 125.44kWh Rated Power: 25kW, 50kW Grid Voltage: AC400V 50Hz Size: 1500mm*1330mm*2100mm	Capacity: 143.36kWh ~ 215kWh Rated Power: 25kW, 50kW, 100kW Grid Voltage: AC400V 50Hz Size: 1900mm*1330mm*2100mm
High Reliability 4 Layers Safety Design More reliable.	Multi Energy Accessing Solar, diesel generator, wind turbine, etc.	High efficient Response time<200ms. System RTE > 88%	Easy & quick O&M Modularized design Intelligent remote monitoring

Multi-Function

Enerbrick2.0 is a compact Plug-and-play battery energy storage system ,easily to be transported,installed and maintained.It is an All-in-One system integrated with battery modules,intelligent Power Conversion System(PCS) , Battery Management System(BMS),automatic fire control system ,temperature control system(TCS) , Intelligent Monitoring System(IMS) and photovoltaic controller(MPPT).

The cabinet features EV grade LiFePo4 batteries known for their exceptional performance,easily adaptable to various power sources for peak-load shifting, emergency backup, cost savings through Time-of-Use tariffs, and seamless integration with renewable energy sources.It is the preferred choice for commercial districts, shopping malls, communities and charging stations.

Enerbrick 2.0 adopts a revolutionary four-layers safety design, capable of AC or DC coupling with photovoltaic systems.Multiple battery cabinets can be connected in parallel to each other to provide a large-scale energy storage solution.The front-end of the system can be connected to solar system,and the back-end of the system can be connected to DC charging piles and forming an integrated solar +storage + charging project.



Factory/ Office / Park/Community

Arbitraging from the TOU tariff, peak- load shifting, electricity cost saving



EV Charging Station

Solar+storage+charging station to improve the solar utilization



Microgrid

Multi-energy integration with solar, diesel generator, wind turbine, etc.



Distribution Network Operator (DNO)

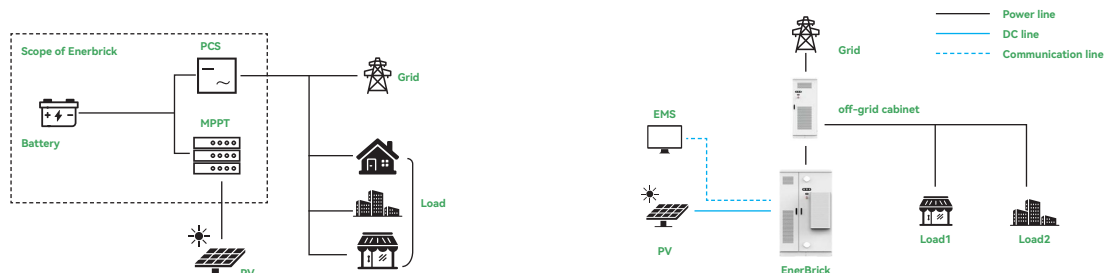
Grid ancillary service, VPP



Plaza/Hospital/Hotel

Peak-Shaving,Backup Power, Demand Side Response, Time-Of-use Tariff Arbitrage

TOPOLOGY MAP



PRODUCT PARAMETERS

Model	Enerbrick2.0-S		Enerbrick2.0-M		Enerbrick2.0-L		
	S30P	S60P	M25P	M50P	L25P	L50P	L100P
Battery Parameters							
Battery cell type & capacity	LiFePO4 - 100Ah		LiFePO4 - 280Ah		LiFePO4 - 280Ah		
Module model	1P24S		IP20S		IP20S		
Battery storage capacity range	46.08kWh~69.12kWh		107.52kWh ~ 125.44kWh		143.36kWh~215kWh	143.36kWh~215kWh	215kWh
AC On-Grid Side Parameters							
Grid connection type	3P4W+PE		3P4W+PE		3P4W+PE		
Rated power	30kVA	60kVA	25kW	50kW	25kW	50kW	100kW
Maximum apparent power	33kVA	66kVA	30kVA	60kVA	30kW	60kW	110kW
Rated grid voltage	AC 400V						
Grid voltage range	±20%		±15%		±15%		
Frequency range	50/60(±2.5)Hz						
Rated AC output current	43A	43A	36A	72A	36A	72A	144A
Power factor	0.8 (Leading) ~ 0.8 (Lagging)						
Harmonics	≤3% (at rated power)						
AC off-grid Side Parameters							
Grid connection type	3P4W+PE,400(±20%)V		3P4W+PE		3P4W+PE		
Rated output power	30kW	60kW	25kW	50kW	25kW	50kW	100kW
Overload capacity	110%-120%,10mins;120%-150%,200ms		110% 10mins;120% 1min		110% 10mins;120% 1min		
Maximum Nos. of parallel	6	3	6		6	6	3
General Parameters							
Dimensions (W*H*D)	1350*2100* 1050mm		1500mm*2100mm*1330mm		1900mm*2100mm*1330mm		
Maximum weight	1500kg		1660kg		2500kg		
Degree of protection	IP55 (Battery Cabinet) IP34 (Electrical Cabinet)						
Cooling method type	Battery Cabinet (air conditioner) Electrical Cabinet (forced air cooling)						
Firefighting system	FM200 & Aerosol (Novec1230 optional)		FM200 (Novec1230 optional)		FM200 (Novec1230 optional)		
Anti-corrosion grade	C3						
Relative humidity	0-95%(non-condensing)						
Altitude**	<2000m						
Operating temperature*	-20°C ~ 50°C						
Noise level	≤75dB						
Communication interface	RS485, Ethernet						
Communication protocol	Modbus RTU, Modbus TCP/ IP						
Product standard warranty	5 years, 3500 cycles (1C, 95%DOD, EOL:70%)		5 years, 6000 cycles (0.5C, 95%DOD, EOL:70%)		5 years, 6000 cycles (0.5C, 95%DOD, EOL:70%)		
PV Side Parameters (Optional)							
Maximum PV input power	30kW/60kW	30kW/60kW /90kW/120kW	25kW/50kW	25kW/50kW/100kW	5kW/50kW	25kW/50kW/100kW	
MPPT voltage range	200V~850V		200V~850V		200V~850V		
Number of MPPTs			1/1	1/1/2	1/1	1/1/2	
Number of PV inputs	1/1	1/1/2	1/1	1/1/2	1/1	1/1/2	
Maximum input current	100A/200A	100A/200A/400A	100A/200A	100A/200A/300A/400A	100A/200A	100A/200A/400A	
Certifications							
Enerbrick System	CE (IEC61000、IEC62619、IEC62477) , UKCA, UN3480, MSDS						
Battery Cell	IEC 62619, UL1973, UL1642, UL9540A;		IEC 62619, UL1973, UL1642, UL9540A;				
Battery Pack	IEC 62619 UN38.3		IEC 62619, UN38.3;				
CS	G99,EN50549,AS4777.2,VDE4105		IEC62477, EN50549, G99 by ENA.				

Note: Product specifications are subject to change without any prior notice as per regular modifications made by company.

* The system will be derated when the ambient temperature exceeds 45°C .

** The system will be derated when the altitude is between 2000 and 3000m

*** The minimum system capacity requirement is 125kwh if need MPPT for Enerbrick2.0-M