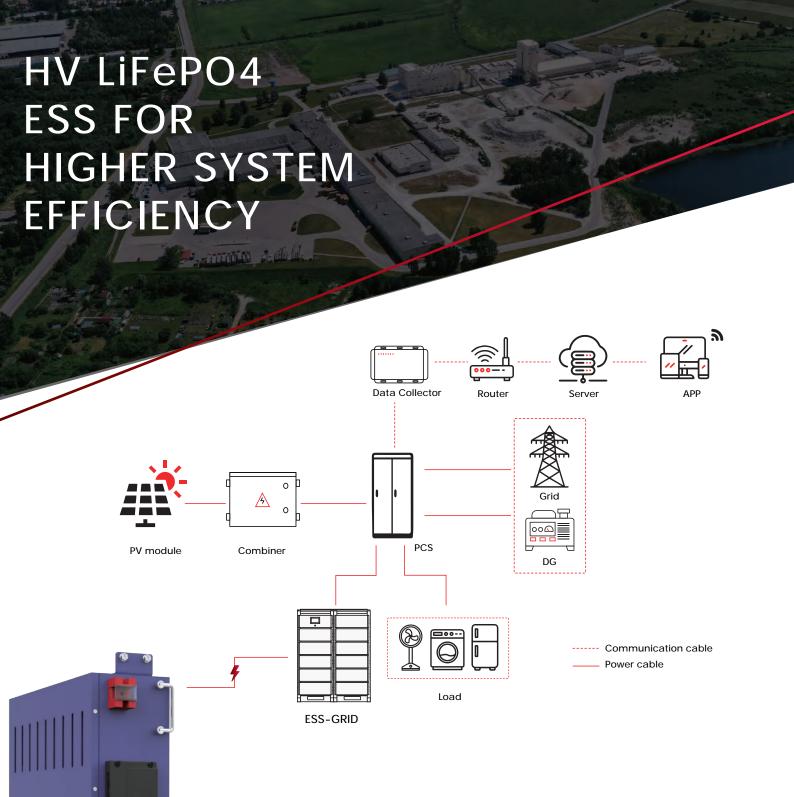


ESS-GRID Solutions, Made and Designed by BSLBATT.

The BSLBATT ESS-GRID series is designed for grid-connected and off-grid connected commercial and industrial energy storage and microgrid applications, with three capacity options of 68kWh / 102kWh / 157kWh for three-phase solar systems.









The BSL ESS-GRID series satisfies the highest performance and economic efficiency standards. Are you interested in dynamic peak shaving, Time of Use or back-up power applications, either on-grid or off-grid? Then our ESS-GRID products are sure to impress you. ESS-GRID solutions are allowing flexible installations for Microgrid and commercial/industrial (C&I) installations.



Module integration

Adopt rack type box design, the module supports multi-computer parallel connection, flexible expansion at any time and anywhere.



Flexible networking

It can be matched with PCS energy storage converter, and can be flexibly networked according to customer requirements.



Strong Load Carrying Capacity

With strong overload capacity, it can widely adapt to various types of shock loads and inductive loads.



Easy installation

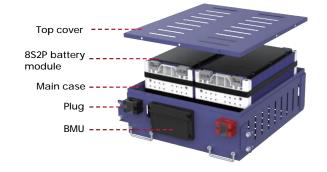
All adopt standardized interface, plug and play, improve maintainability and reliability.

Cell Specificaton

ITem	ESS-GRID B69 CELL	ESS-GRID B105 CELL	ESS-GRID B158 CELL
Series and parallel	16S2P	16S1P	16S1P
Rated capacity	134Ah	205Ah	280Ah
Rated voltage	DC51.2V	DC51.2V	DC51.2V
Voltage range	40V~58.4V	40V~58.4V	40V~58.4V
Rated energy	6.86 kWh	10.49 kWh	14.3 kWh
Max. charge current	130A	205A	280A
Max. discharge current	150A	205A	280A
Peak current	160A(25°C, 50%SOC, 10s)	410A(25°C, 50%SOC, 10s)	560A(25℃, 50%SOC, 10s)
Ip grade	IP20	IP20	IP20
Discharge temp.	-20°C~55°C	-20°C~55°C	-20°C~55°C
Charge temp.	0°C~45°C	0°C~45°C	0°C~45°C
Dimension	515*456*170 (±2mm)	610*396*242 (±2mm)	390*750*255.5 (±2mm)

System Specification

lTem	ESS-GRID B69	ESS-GRID B105	ESS-GRID B158
Series and parallel	16S2P	16S1P	16S1P*11=176S1P
Rated capacity	134Ah	205Ah	280Ah
Rated voltage	DC512V	DC512V	DC563.2V
Operating voltage range	400V ~ 584V	400V~584V	40V~58.4V
Voltage range	448V ~ 560V	448V~560V	492.8V~616V
Rated energy	68.6kWh	104.9kWh	157.6kWh
Rated charge current	130A	205A	280A
Rated discharge current	130A	205A	280A
Peak current	160A (25°C,SOC50%,10S)	410A (25°C,SOC50%,10S)	560A (25℃,SOC50%,10S)
Ip grade	IP20	IP20	IP20
Discharge temp.	-20°C ~ 55°C	-20°C~55°C	-20°C~55°C
Charge temp.	0°C ~ 45°C	0°C~45°C	0°C~45°C
Diamension	1132*625*1493 (±2mm)	1012*720*1943 (±2mm)	1000*850*1949 (±3mm)
System composition	10 battery boxes + 1 high voltage box	10 battery boxes + 1 high voltage box	11 battery boxes + 1 high voltage box



CUSTOM REQUESTS

Scope to customise the systems means you can ensure your project needs are always being met. If you cannot find a pre-configured solution simply get in touch. We can work with you to design a one-of-a-kind BESS built specifically for you and your needs in Single, Dual or Three Phase configurations.

APPLICATIONS & MARKETS

BSLBATT's energy storage system solutions can be flexibly customized for your use in the above scenarios and markets.



Commercial & Industrial (C&I)

- Agribusiness/Farming
- ✓ Oil & Gas
- ✓ Emergency Services
- ✓ Government Projects
- ☑ Local/Rural Businesses
- ✓ Manufacturing Plants
- ▼ Telecom/Data
- ✓ Infrastructure
- ✓ School Power Backup
- ☑ Rail/Transport



Utility Scale/Owned

- Fringe of Grid
- ✓ Island Power
- ✓ Community Batteries
- ✓ Centralised Grid Storage
- ✓ Remote Communities

APPLICATIONS



ON-GRID



ON-GRID EPS



VIRTUAL POWER PLANT (VPP)



TIME OF USE **MANAGEMENT**



MICRO-GRIDS



DIESEL OFF-SET



PEAK SHAVING

AC



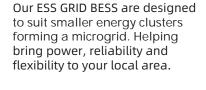
ENERGY SHIFTING

> Backed Up Load

Grid Only

Load

SECONDARY LOAD BACKUP





AC Source





PEAK SHAVING

Utilize electricity price difference, charge battery at low price and discharge at high price to maximize system profit, compensate local transformer limit.

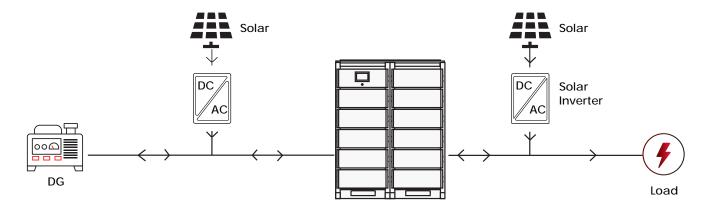
ENERGY SHIFTING

Fully leverage the flexible energy storage system to increase the consumption of electricity generated from renewable energy sources and reduce the curtailment of wind and solar power.

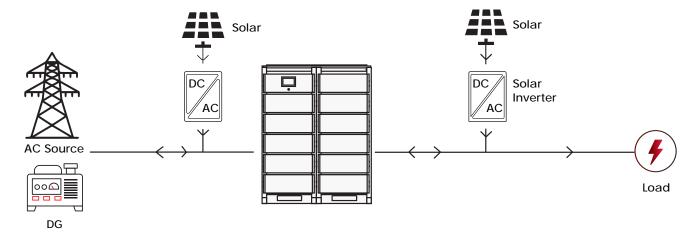
APPLICATION LOGIC FOR DIFFERENT SCENARIOS

Our ESS-GRID system can be applied very flexibly in off-grid or grid-connected systems for microgrid, power backup and other requirements, see the configuration examples below.

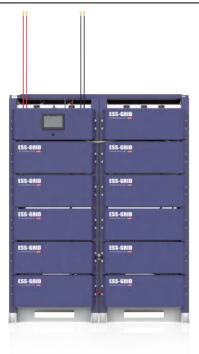
MICROGRID BARRERY SYSTEM



BACK UP BARRERY SYSTEM



SCALABILITY





Supported by the BSLATT technical team, after many tests and projects. the ESS-GRID BESS shows a high level of reliability and security.



Max = 16 Cluster of the same models in Parrallel



Decentralized Grid Communities Every installation of ESS-GRID is a step towards a greener future



Facing the Future

We can always update ESS-GRID to make the product better and more efficient.















