

BESS

Battery Energy Storage System

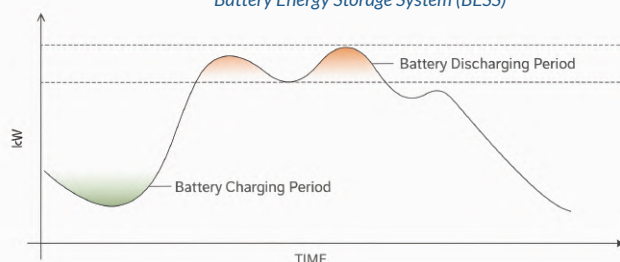




Main Applications & Advantages of Battery Energy Storage System

- **Peak Shaving.** A cost-saving technique used by businesses to reduce electricity expenses by minimizing peak electricity demand, thereby lowering demand charges.
- **Load shifting.** Which allows businesses to shift their energy consumption from one time period to another.
- **Flexibility,** whereby customers can reduce their site's grid demand at critical times – without changing their electricity consumption
- Micro grids rely on batteries as a key component, because these grids need energy storage to enable them to disconnect from the main electricity grid when needed
- Integration with renewable energy sources, since batteries guarantee a smooth and continuous electricity flow in the absence of the availability of power from renewable
- **Environmental gains:** installing a battery storage system in a home or businesses powered by renewable energy reduces pollution
- **Lower energy costs:** costs: storing low-cost energy and consuming it during peak periods when electricity rates are higher allows a user to shift consumption and avoid higher charges
- **Less dependent on the grid:** battery storage systems guarantee a continuous energy supply, even at times when the energy grid is unstable due to peaks in demand or extreme weather
- **Resilience:** a battery storage system provides emergency backup in the event of a power outage, guaranteeing business continuity

Optimizing Power Consumption of Battery Energy Storage System (BESS)



Technical Specifications

Model	HBESS 100
PCS Capacity	100KW
Storage Capacity	215KWh
DC Voltage & Capacity	768V/280Ah
AC Side	
Nominal Voltage	415V
Configuration	3PH+N+E
AC Voltage Range	±15%
Overload Capacity	110%
THDi	<2%
PF	>0.99
DC Side	
Battery Chemistry	LiFePO4
Module Capacity	51.2V 280Ah
No of Modules	15
DC Bus	768V
DOD	95%
Life Cycle	15000 cycles @ 70% DOD upto 70% SOH
BMS	Provided
Features	
Communication	RS 485, Ethernet
Remote Monitoring	Cloud Based Website, Mobile App
User Settable Parameter	Scheduled Battery discharge / Charge with adjustable power setting
Ancillary Service Solution	Yes
General	
Cooling System	HVAC
Fire Protection	Firefighting system with Smoke/Gas detection
Protection level	IP55
Operating temp Range	-20 to +50°C
Humidity	0-95% (Non Condensing)
Size(DWH)	1121x1500x2500mm
Weight	2600Kg

The optimum solution to guarantee an uninterrupted supply of power under all conditions

Amid an increased focus on renewable energy sources, BESS (Battery Energy Storage System) compensates for the intermittency of these sources, providing essential value for operators by enabling a stable supply of electricity thus avoiding curtailment of renewable energy and maximizing their revenue.

As the demand for renewable energy and electrification grows, a BESS is a reliable source of power that can help reduce emissions, optimize energy costs, and promote a stronger, greener grid.

Call us



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