SMALL-SCALE C&I ESS SOLUTION

DEYE SUMMER BOS SERIES



Intelligent Control

- Protection against over-discharge, over-charge, over-current and extreme temperatures
- Automatically manage charge / discharge
- States and balances cell current voltage
- Uploading of battery data via TCP protocol

Smart Operation

- Cloud-based monitoring
- Keep track of the operating status
- Intelligent strategy control
- Effectively saving on electricity bill

Flexible Expansion

- Support 7 ~ 21 packs
- Inverter 50 ~ 80kW, Battery 38 ~ 160kWh
- Easy capacity expansion and save more budget

Easy Installation

- 3U rack embedded design
- A concise data display interface
- Multiple battery modules can be inseries for expanding
- Dual power output plugins, each supports 100A
- Connectable to two inverter DC interfaces
- USB, Bluetooth connection

Safe and Reliable

- Intelligent BMS
- Firefighting module
- Dual electrode disconnection design
- Support up to 160A current output

Long Service Life

- Full replacement warranty
- 6000 cycles

⩾6000
Cycles

5U
Standard Chassis

70%
EOL

10 years
Warranty

Rack-Mounted Battery (HV)



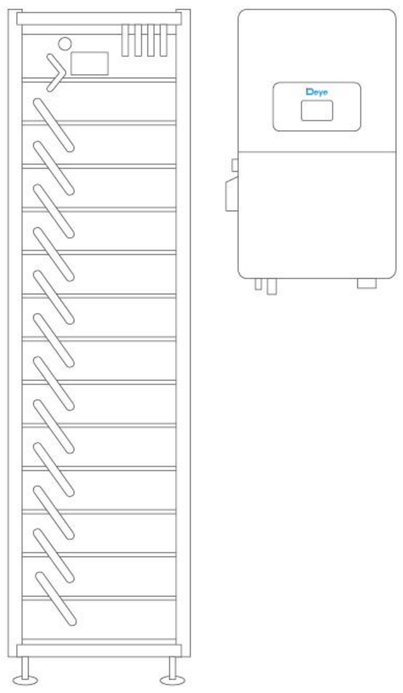
Model		BOS-A		
Main Parameter				
Cell Chemistry		$LiFePO_4$		
Module Energy (kWh)		7.68		
Module Nominal Voltage (V)		38.4		
Module Capacity (Ah)		200		
Module Dimension (W × D × H, mm)		601.5 × 520 × 135		
Module Weight Approximate (kg)		70		
Battery Module Qty In Series (Optional)		7	13	21
System Nominal Voltage (V)		268.8	499.2	806.4
System Operating Voltage (V)		235.2 ~ 306.6	436.8 ~ 569.4	705.6 ~ 919.8
System Energy (kWh)		53.76	99.84	161.28
System Usable Energy (kWh) [1]		48.38	89.85	145.15
Charge / Discharge[2] Current (A)	Recommend	100		
	Max	160		
Working Temperature (°C)		Charge : 0 ~ 55 / Discharge : -20 ~ 55		
Status Indicator		Yellow : Battery High Voltage Power On Red : Battery System Alarm		
Communication Port		CAN2.0		
Humidity		5% ~ 85%RH		
Altitude		⩽3000m		
IP Rating of Enclosure		IP20		
Dimension (W × D × H, mm)		610 × 610 × 1900	610 × 610 × 2350	(610 × 610 × 1900) × 2
Weight Approximate (kg)		558	985	1586
Installation Location		Rack-Mounted		
Storage Temperature (°C)		0 ~ 35		
Recommend Depth of Discharge		90%		
Cycle Life		⩾6000 (25±2°C, 0.5C / 0.5C, EOL70%)		
Warranty[3]		10 years		
Certification		CE / IEC 62619 / IEC 62040 / UN38.3 / VDE-2510		

1. DC Usable Energy, test conditions : 90%DOD, 0.3C charge & discharge at 25°C. System usable energy may vary due to system configuration parameters.
2. The current is affected by temperature and SOC.
3. The warranty is due whichever reached first of warranty period or life cycle power.

Small-Scale C&I ESS Solutions

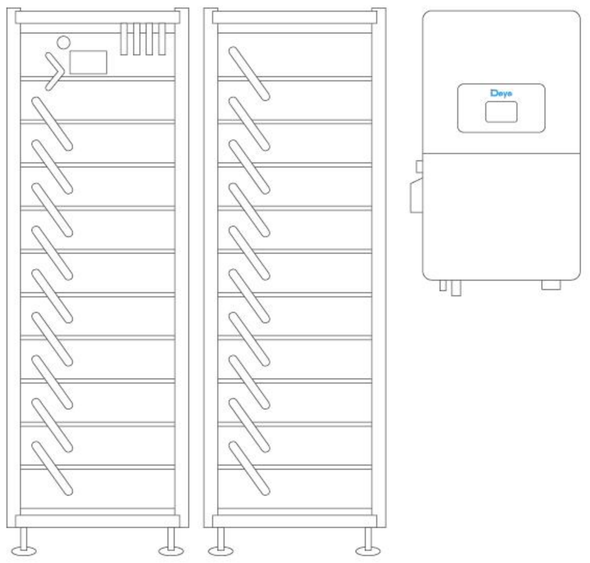
Backup Power Duration Plan	2 hours		4 hours	
Hybrid inverter power	50kW	80kW	50kW	80kW
Battery model	BOS-A100	BOS-A160	BOS-A100	BOS-A160
Number of batteries	1 pc	1 pc	2 pcs	2 pcs

BOS-A100



50kW / 100kWh

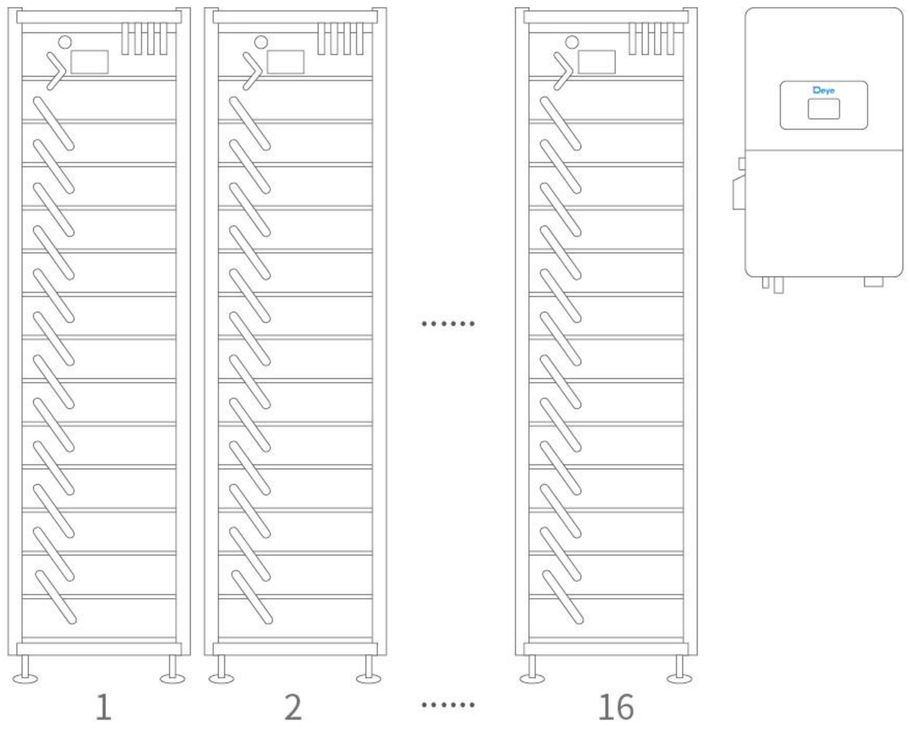
BOS-A160



80kW / 160kWh

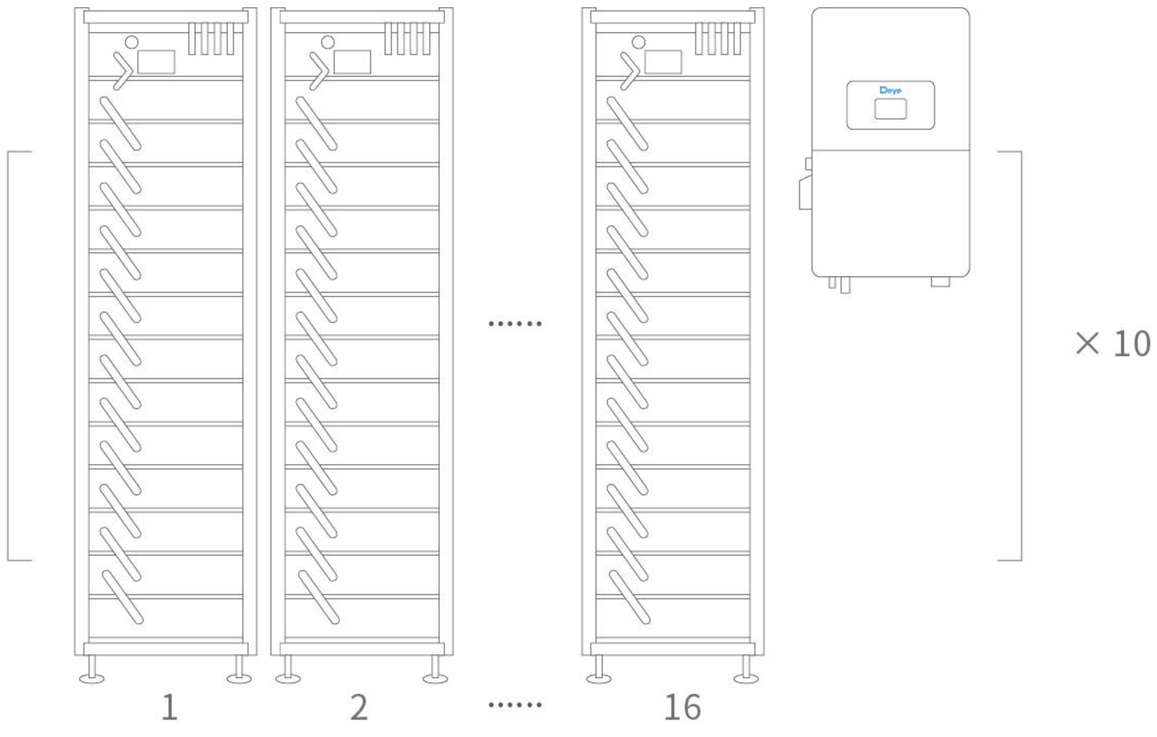
Typical Application Scenarios

BOS-A100 Inverter 50kW



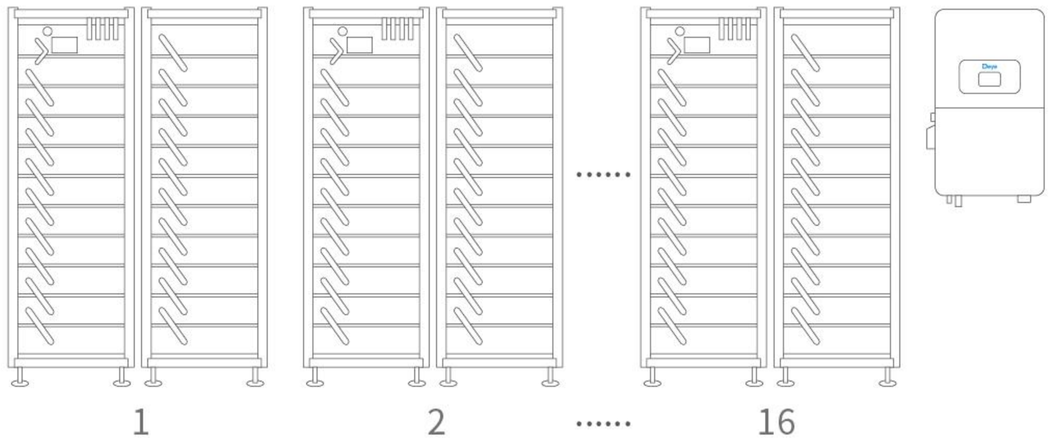
Maximum support for 16 racks of batteries in parallel

BOS-A100 Inverter 50kW



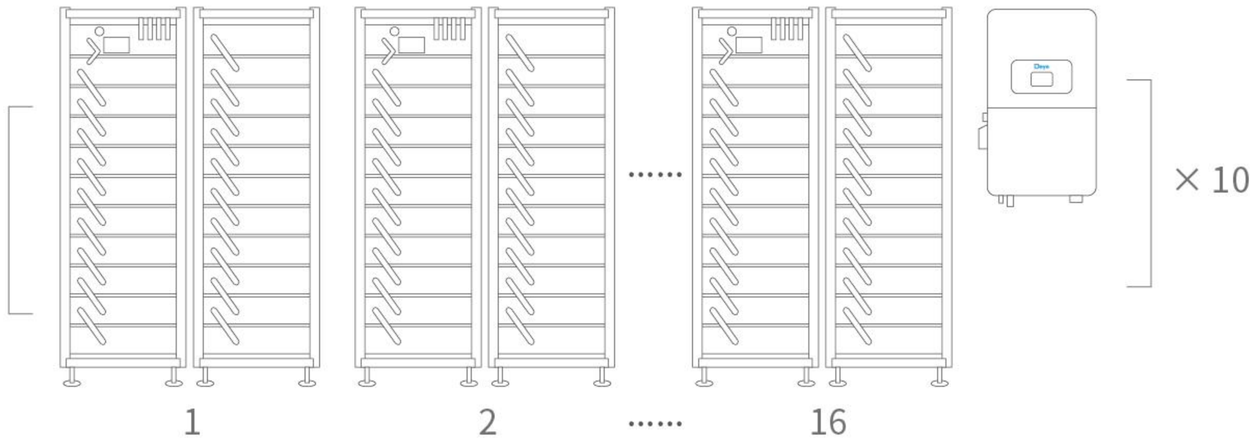
Maximum support for 10 inverters in AC parallel operation

BOS-A160 Inverter 80kW



Maximum support for 16 clusters of batteries in parallel

BOS-A160 Inverter 80kW



Maximum support for 10 inverters in AC parallel operation

Deye Cloud
Intelligent Energy Management

Efficiency Optimization

Real-Time Monitoring

User-Friendly



Supporting the establishment, data acquisition, data monitoring, one-stop operation maintenance and after-sales service of all new energy power stations.

Through the Deye smart cloud big data platform, all types of power stations with transparent management which improves the value of power stations comprehensively.

CONNECT, MONITOR, CONTROL

Seamlessly integrated with Deye devices for a smarter, more efficient energy experience.

- User-friendly interface demystifies complex settings.
- Clear menu hierarchy, key information at your finger tips.

Deye ESS / Deye Inverter

Download on the App Store

GET IT ON Google Play