

iDeye

SMALL-SCALE C&I ESS SOLUTION

DEYE SUMMER BOS SERIES



Convenient

- 19-inch embedded design
- Support USB and Wi-Fi upgrade(optional)
- Support remotely monitoring and upgrade (Compatible with Sol-Ark inverter)
- Multiple battery modules can be in parallel



Safe and Reliable

- LFP Battery: safety, long lifespan and high-energy density
- The module is non-toxic, non-polluting, and eco-friendly
- Working temperature: -20°C ~ 55°C



Intelligent Functions

- Protection functions against over-discharge, over-charge, over-current, over-high or low temperature
- Automatically manage charge/discharge and balance current/voltage
- Less self-discharge, up to 6 months without charging it on shelf
- No memory effect, excellent performance of shallow charge and discharge

Rack-Mounted Battery



Model		BOS-GL60	BOS-GH40	BOS-GH60
Main Parameter				
Cell Chemistry		LiFePO ₄		
Module Energy (kWh)		5.12		
Module Nominal Voltage (V)		51.2		
Module Capacity (Ah)		100		
Battery Module Qty In Series (Optional)		12 (2P6S)	8 (1P8S)	12 (1P12S)
System Nominal Voltage (V)		307.2	409.6	614.4
System Operating Voltage (V)		240 ~ 350.4	320 ~ 467.2	480 ~ 700.8
System Energy (kWh)		61.44	40.96	61.44
System Usable Energy (kWh)		55.29	36.86	55.29
Charge / Discharge ² Current (A)	Recommend	100	50	
	Nominal	100		
	Peak Discharge (2 mins, 25°C)	125		
DC Technical Specification				
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 / RS485		
Humidity		5% ~ 85%RH		
Altitude		≤2000m		
IP Rating of Enclosure		IP20		
Dimension (W × D × H, mm)		530 × 667 × 2187	530 × 667 × 1629	530 × 667 × 2187
Weight Approximate (kg)		75+45 × 12+20=635kg	53+45 × 8+20=433kg	75+45 × 12+20=635kg
Installation Location		Rack Mounting		
Storage Temperature (°C)		0 ~ 35		
Recommend Depth of Discharge		90%		
Cycle Life		25±2°C, 0.5C / 0.5C, EOL70%≥6000		
Warranty ³		10 years		
Certification		UL1973 / UL9540A / UN38.3 / UL9540		

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.

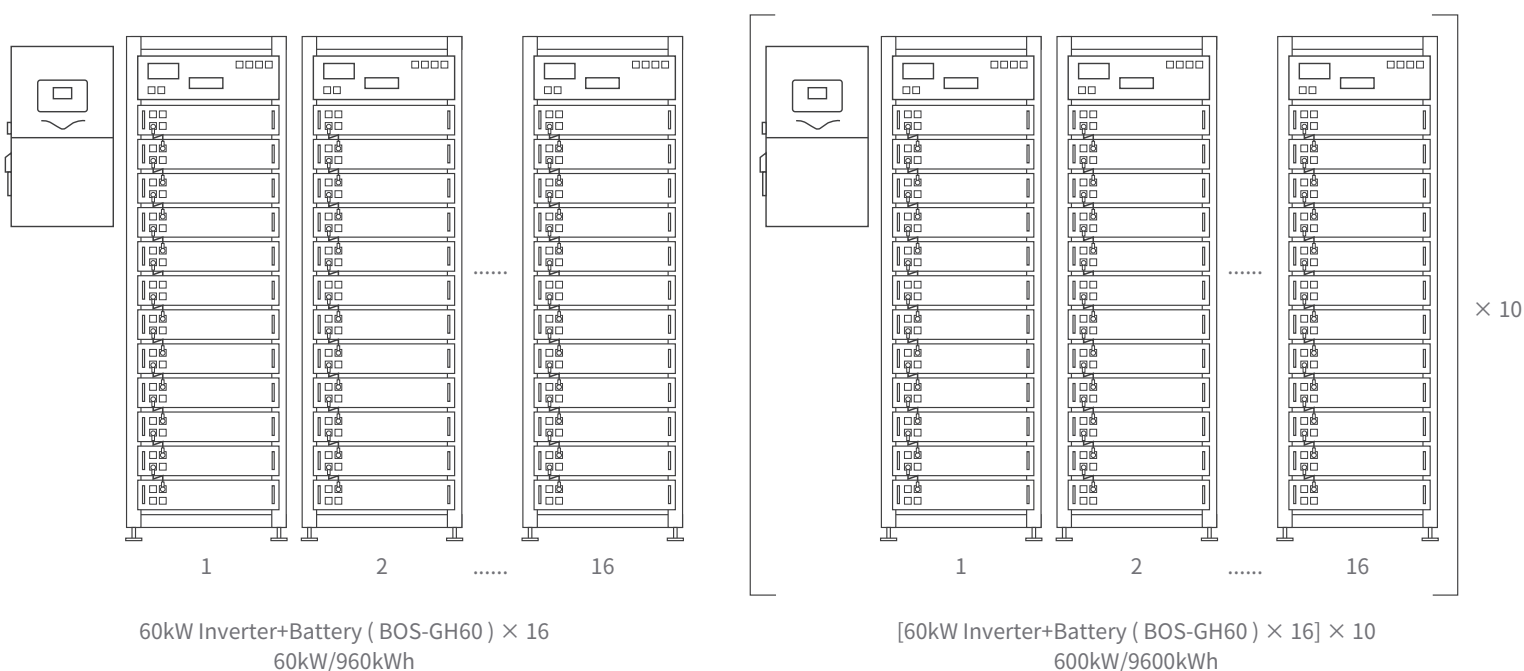
Rack-Mounted Battery

Backup power duration plan	1 hour				2 hours			
Hybrid inverter power	30kW		60kW		60kW		30kW	
Battery model	BOS-GH40		BOS-GH60		BOS-GH60		BOS-GL60	
Number of batteries	1 pc		1 pc		2 pcs		1 pcs	

BOS-GH60 | Minimum 4 battery packs connected in series, maximum 12 batteries

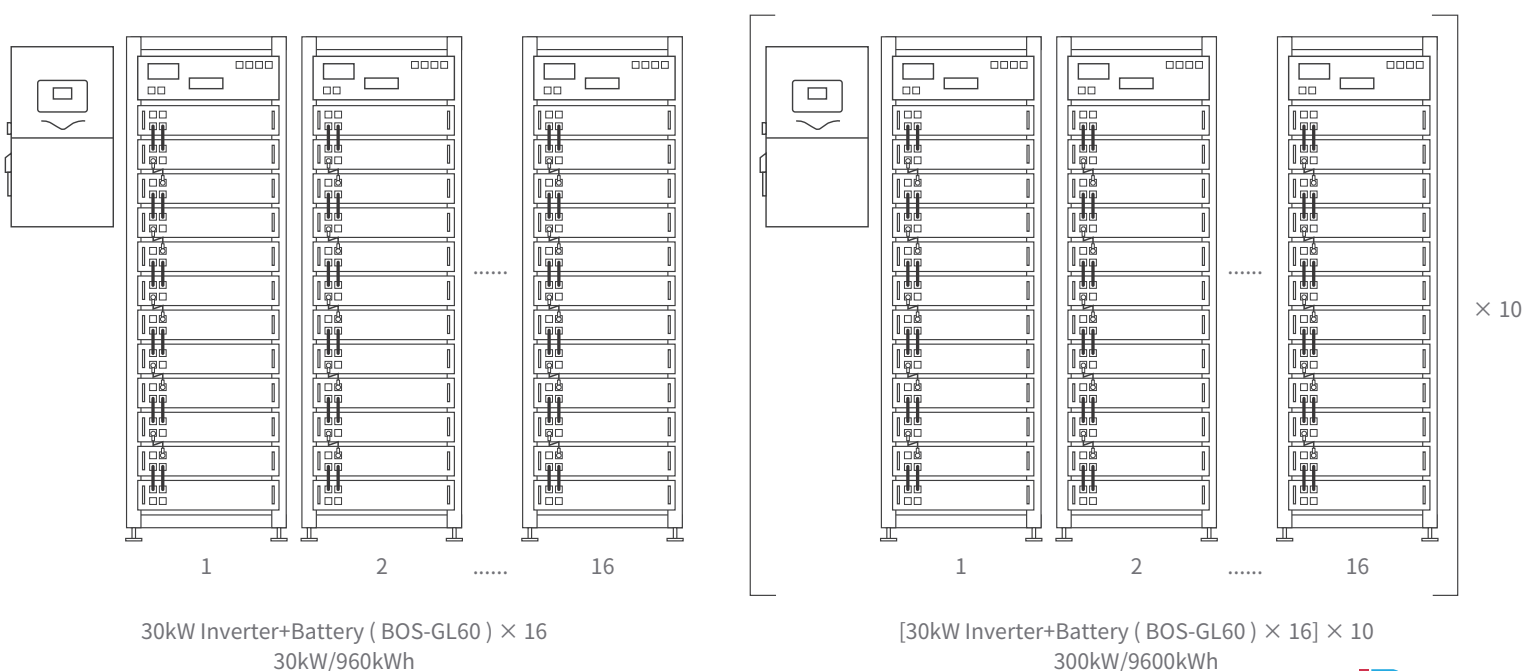
Battery Module Number	BOS-GH20	BOS-GH25	BOS-GH30	BOS-GH35	BOS-GH40	BOS-GH45	BOS-GH50	BOS-GH55	BOS-GH60
Battery Module Qty In Series (Optional)	4	5	6	7	8	9	10	11	12
System Energy (kWh)	20.48	25.6	30.72	35.84	40.96	46.08	51.2	56.32	61.44

Supports up to 16 battery clusters in parallel
Supports up to 10 AC inverters in parallel



BOS-GL60

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System Components

Model	Description
BOS-G-PDU-NA	High Voltage Battery cluster control box conforming to North American Standard
Operating Voltage	120 ~ 750Vdc
Nominal Charge / Discharge Current	100A
Max.Charge / Discharge Current	125A
DC Input Rating	12±2%V / 4.15A
Operating Temperature Range	-20 ~ 65°C
Ingress Protection	IP20
Dimension (W× D× H)	440× 570× 150mm
Weight Approximate	17kg
BOS-G-Pack5.1-D	5.12 kwh battery module
Battery Type	LiFePO ₄ (LFP)
Nominal Voltage	51.2Vdc
Rated Capacity	100Ah
Rated Energy	5.12kWh
Nominal Charge / Discharge Current	100A
Peak.Discharge Current	125A
Charge Temperature	0 ~ 55°C
Discharge Temperature	-20°C ~ 55°C
Storage Temperature	0°C ~ 35°C
Ingress Protection	IP20
Dimension (W× D× H)	440× 570× 133mm
Weight Approximate	44kg
3U-HCabinet (Optional)	Standard 19inch rack can install 12 / 8 pcs batteries and 1 pcs High Voltage Battery cluster control box
Dimension (W× D× H)	530× 667× 1629mm / 530× 667× 2187mm
Weight Approximate	53kg / 75kg

