

Small-Scale C&I Energy Storage Solution

BOS-A

BOS-A

Intelligent Control
Over-discharge/charge/current and temp protection

Superior Output
Support up to 160A current output

Flexible Expansion
Support 7~21 packs in series
Inverter 50~100kW, Battery 54~161kWh

10-Year Warranty
Safest LFP battery&Intelligent BMS

3U Rack Design
Connectable to two inverter DC interfaces

Battery Protection
Auto-managed charge/discharge&Cell voltage balancing

Small-Scale C&I Energy Storage Solution



Model	BOS-A50	BOS-A60	BOS-A65	BOS-A75	BOS-A80	BOS-A90	BOS-A95	BOS-A100
Main Parameters								
Cell Chemistry	LiFePO4							
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	8	9	10	11	12	13	14
System Nominal Voltage (V)	268.8	307.2	345.6	384	422.4	460.8	499.2	537.6
System Operating Voltage (V)	235.2~306.6	268.8~350.4	302.4~394.2	336~438	369.6~481.8	403.2~525.6	436.8~569.4	470.4~613.2
System Energy (kWh)	53.76	61.44	69.12	76.8	84.48	92.16	99.84	107.52
System Usable Energy (kWh) [1]	48.38	55.29	62.2	69.12	76.03	82.94	89.85	96.76
Max Continuous Discharge Rate(kW)	43	49.15	55.29	61.44	67.58	73.72	79.87	86.01
Charge/ Discharge Current(A)[2] Recommend	100							
Charge/ Discharge Current(A)[2] Max.	160							
Other Parameter								
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 x 610 x 1600	610 x 610 x 1600	610 x 610 x 1900	610 x 610 x 1900	610 x 610 x 2350	610 x 610 x 2350	610 x 610 x 2350	1220 x 610 x 1600
Weight Approximate (kg)	525	591	662	728	802	868	934	1029
Installation Location	Rack-Mounted							
Storage Temperature (°C)	0~35							
Recommend Depth of Discharge	0.9							
Cycle Life	≥6000 (25±2°C, 0.5C / 0.5C, EOL70%)							
Warranty[3]	10 years							
Certification	UN38.3 / UL1973 / UL9540 / UL9540A							

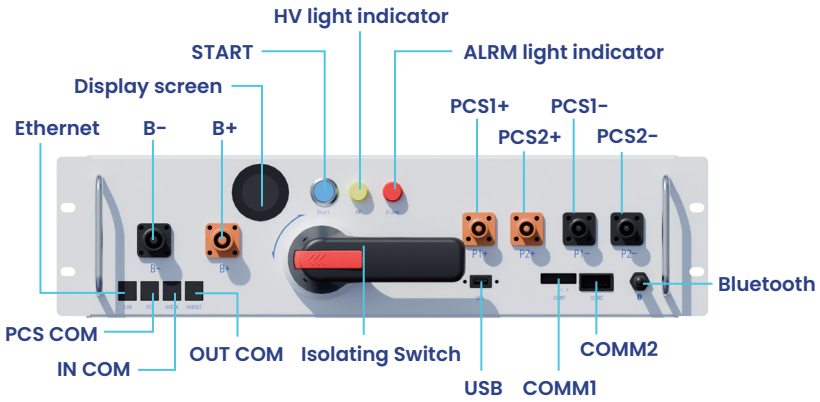
1. DC Usable Energy, test conditions : 90%DOD, 0.3C charge & discharge at 25°C. System usable energy may vary due to system configuration parameters.
2. The current is affected by temperature and SOC.
3. The warranty is due whichever reached first of warranty period or life cycle power.

Model	BOS-A115	BOS-A120	BOS-A130	BOS-A135	BOS-A145	BOS-A150	BOS-A160
Main Parameters							
Cell Chemistry	LiFePO4						
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)	15	16	17	18	19	20	21
System Nominal Voltage (V)	576	614.4	652.8	691.2	729.6	768	806.4
System Operating Voltage (V)	504~657	537.6~700.8	571.2~744.6	604.8~788.4	638.4~832.2	672~876	705.6~919.8
System Energy (kWh)	115.2	122.88	130.56	138.24	145.92	153.6	161.28
System Usable Energy (kWh) [1]	103.68	110.59	117.5	124.41	131.32	138.24	145.15
Max Continuous Discharge Rate(kW)	92.16	98.3	104.44	110.59	116.73	122.88	129.02
Charge/ Discharge Current(A)[2] Recommend	100						
Charge/ Discharge Current(A)[2] Max.	160						
Other Parameter							
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)	1220 x 610 x 1600	1220 x 610 x 1600	1220 x 610 x 1600	1220 x 610 x 1900	1220 x 610 x 1900	1220 x 610 x 1900	1220 x 610 x 1900
Weight Approximate (kg)	1095	1161	1227	1303	1369	1435	1501
Installation Location	Rack-Mounted						
Storage Temperature (°C)	0~35						
Recommend Depth of Discharge	0.9						
Cycle Life	≥6000 (25±2°C, 0.5C / 0.5C, EOL70%)						
Warranty[3]	10 years						
Certification	UN38.3 / UL1973 / UL9540 / UL9540A						

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.
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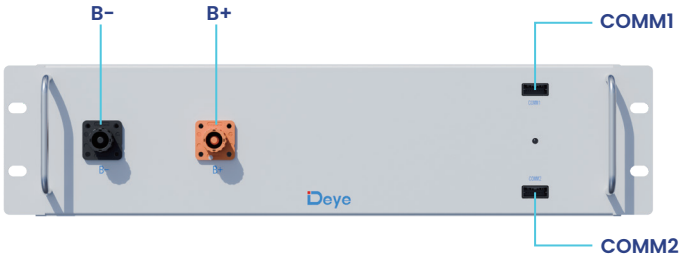
Small-Scale C&I Energy Storage Solution

Model	BOS-A-PDU-4
Operating Voltage	200~1000Vdc
Max.Charge/Discharge Current	160A
Operating Temperature	-20~65°C
Ingress Protection	IP20
DC Input Rating	12±2%V/4.15A
Details	572×632×142.2(W×D×H),21kg



◎ Ethernet:Features not yet developed.
◎ PCS COM:PCS COM battery communication terminal: used to output battery information to the inverter.
◎ IN COM:Connection position with previous BOS-A-PDU-4 communication input.
◎ OUT COM:Connection position with next BOS-A-PDU-4 communication output.
◎ Isolating Switch:It is used to manually control the connection between the battery rack and external devices.
◎ USB:BMS upgrade port and storage expansion port.
◎ COMM1:Connection position of external 12VDC power supply.
◎ COMM2:Used for communication and providing power.
◎ Bluetooth:The mobile APP connects to the data acquisition rod of the energy storage system.
◎ B+:Battery common positive connection position (red).
◎ B-:Battery common negative connection position (black).
◎ Display screen:Display SOC and fault codes.
◎ START:A start switch of 12VDC power inside the high-voltage control box.
◎ HV light indicator:High-voltage hazard indicator (yellow).
◎ ALRM light indicator:Battery system fault alarm indicator (red).
◎ PCS1+:First PCS positive connection position (orange).
◎ PCS2+:Second PCS positive terminal connection position (orange).
◎ PCS1-:First PCS negative connection position (black).
◎ PCS2-:Second PCS negative connection position (black).

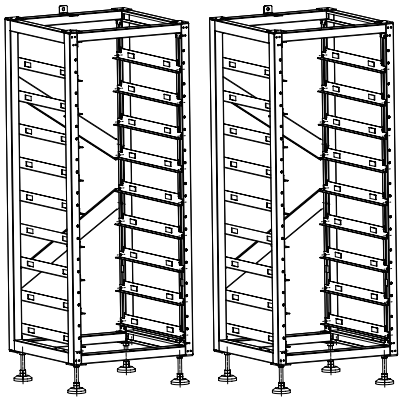
Model	BOS-A-Pack7.68		
Nominal Capacity	200Ah	Ingress Protection	IP20
Nominal Energy	7.68kWh	Operating Temperature(Charge)	0~55°C
Nominal Voltage	38.4Vdc	Operating Temperature(Discharge)	-20~55°C
Nominal Charge/Discharge Current	160A	Storage Temperature	0~35°C
Details	576×632×135.2(W×D×H),66kg		



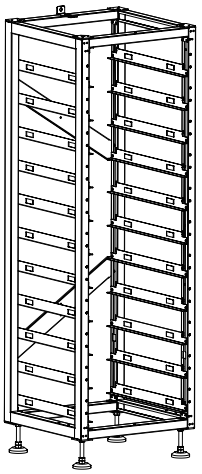
◎ B-:Battery module negative pole (black).
◎ B+:Battery module positive pole (orange).
◎ COMM1:Used for communication and providing power.
◎ COMM2:Used for communication and providing power.

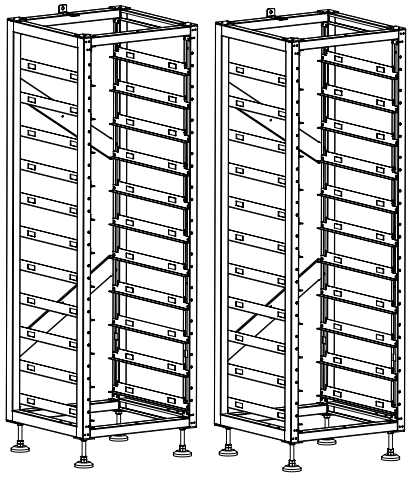
Small-Scale C&I Energy Storage Solution

Model	BOS-A
BOS-A-Rack9 *2	Can install 16 pcs batteries and 1 pcs High Voltage Battery cluster control box.
Dimension (W × D × H) Weight Approximate	1220 × 610 × 1600mm 84kg

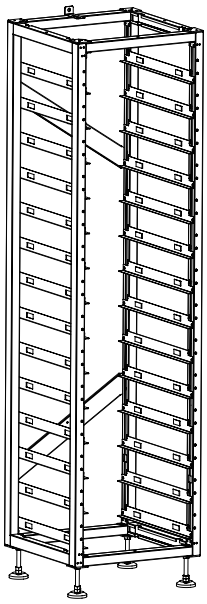


BOS-A-Rack11 **BOS-A-Rack11 *2**	Can install 10 pcs batteries and 1 pcs High Voltage Battery cluster control box. Can install 21 pcs batteries and 1 pcs High Voltage Battery cluster control box.
Dimension (W × D × H) Weight Approximate	610 × 610 × 1900mm 47kg 1220 × 610 × 1900mm 94kg



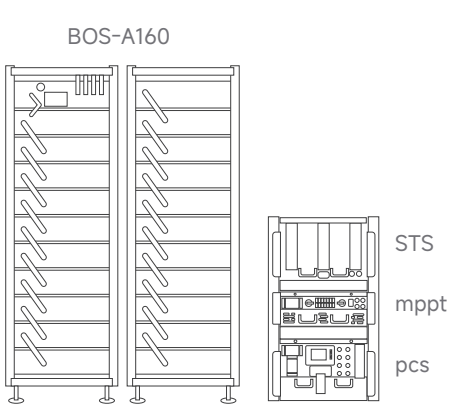


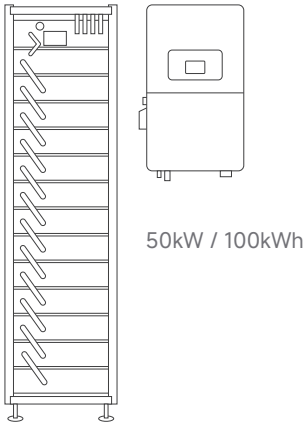
BOS-A-Rack14	Can install 13 pcs batteries and 1 pcs High Voltage Battery cluster control box.
Dimension (W × D × H) Weight Approximate	610 × 610 × 2350mm 55kg

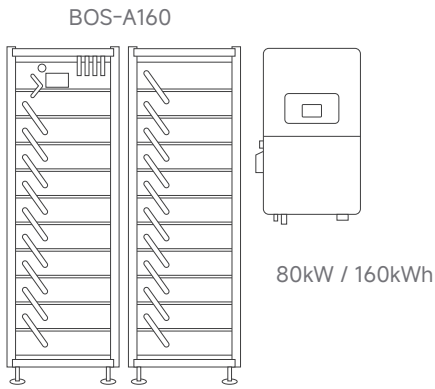


Small-Scale C&I Energy Storage Solution

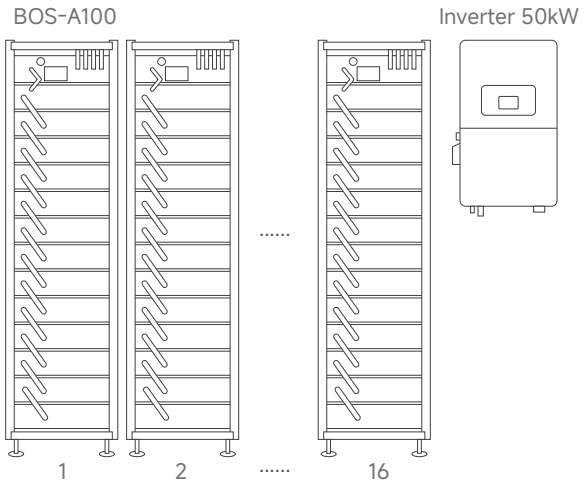
Backup Power Duration Plan	1 hours	2 hours		4 hours	
Hybrid inverter power	100kW	50kW	80kW	50kW	80kW
Battery model	BOS-A160	BOS-A100	BOS-A160	BOS-A100	BOS-A160
Number of batteries	1 pc	1 pc	1 pc	2 pcs	2 pcs



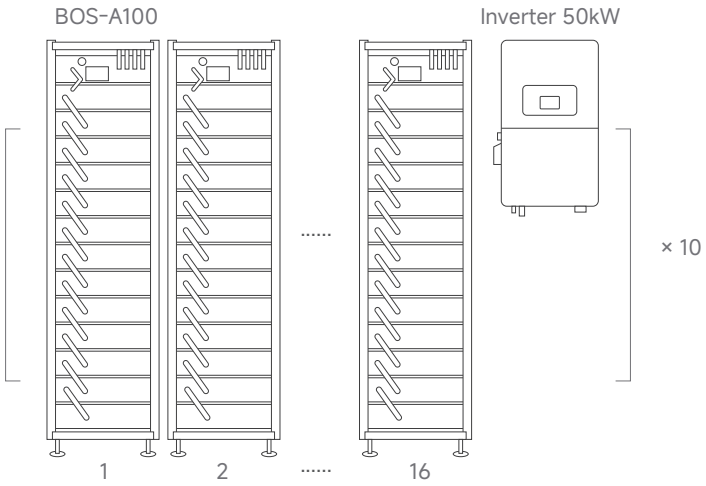




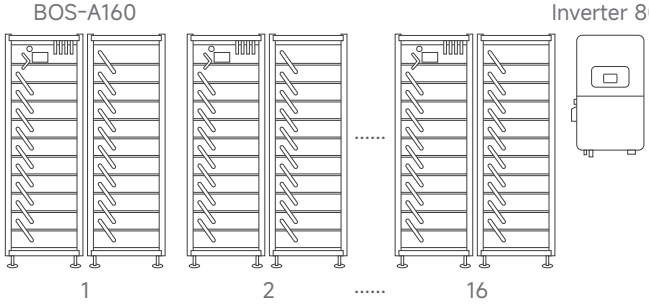
Typical Application Scenarios



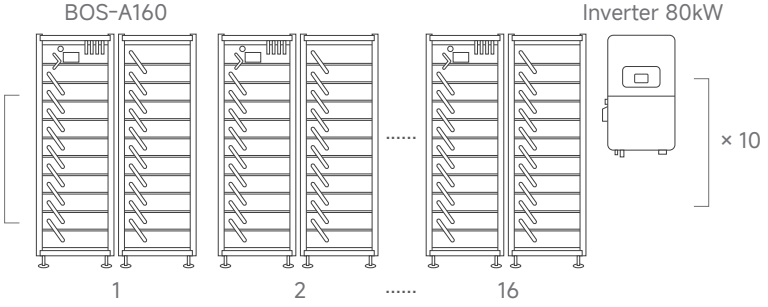
Maximum support for 16 racks of batteries in parallel



Maximum support for 10 inverters in AC parallel operation



Maximum support for 16 clusters of batteries in parallel

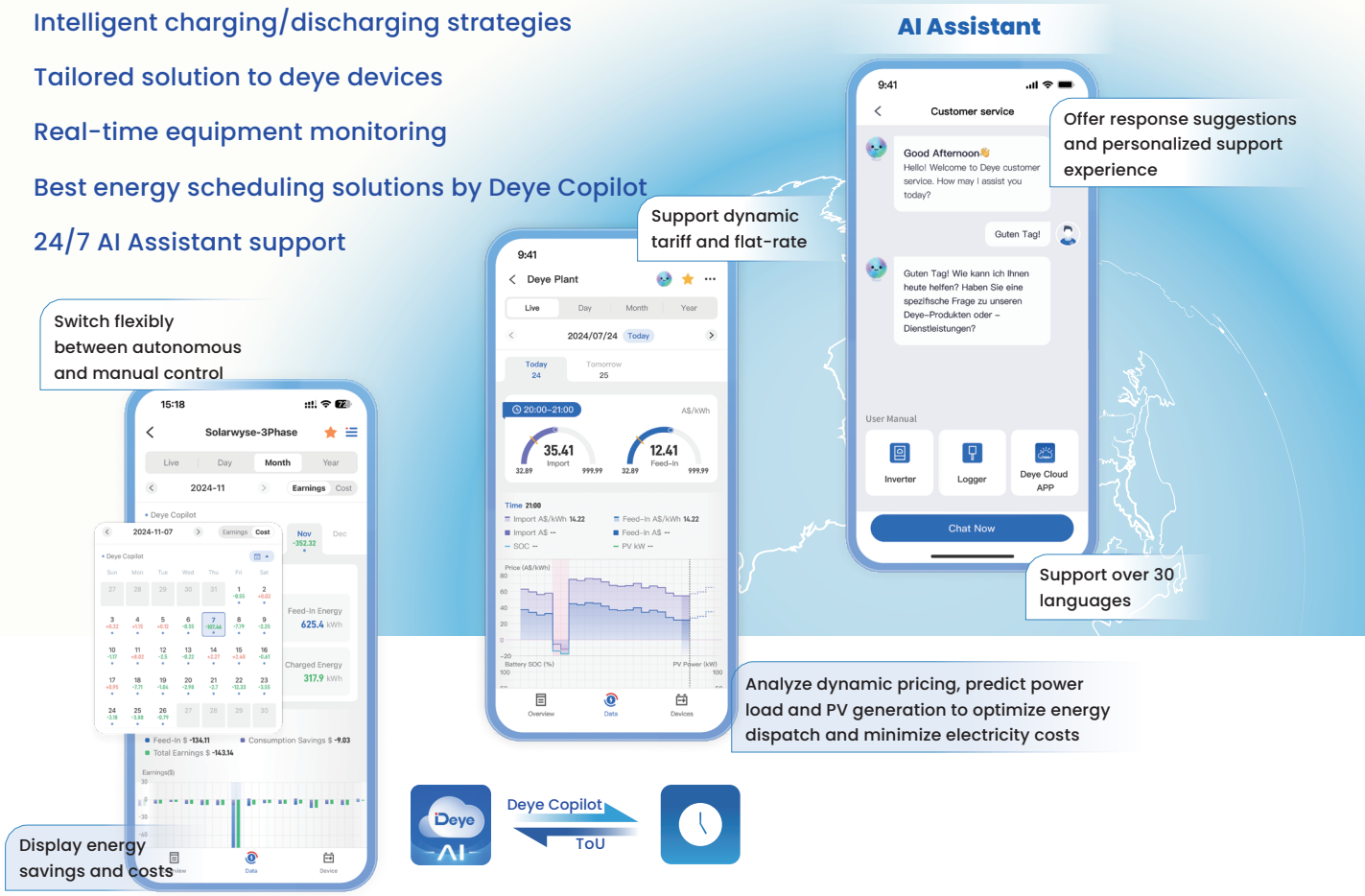


Maximum support for 10 inverters in AC parallel operation

Deye Cloud

All-in-one Energy & Device Management Platform

- Unlock significant savings
- Individual Add-on for dynamic tariff
- Intelligent charging/discharging strategies
- Tailored solution to deye devices
- Real-time equipment monitoring
- Best energy scheduling solutions by Deye Copilot
- 24/7 AI Assistant support



Smarten Up Your Energy Storage System

Download Deye Cloud APP to join us!
Embrace a seamless, effortless energy experience that's both eco-friendly and budget-friendly with our intelligent assistant

APP & Web
Manage your energy effortlessly

Cloud-edge Collaboration
Faster and more efficient

Accelerated Connection
Optimized for speed and performance

Localized Data Centers
Ensure data sovereignty and compliance in EU & US

Deye Copilot
AI-powered energy analysis and control

AI Assistant
24/7 support, fast, efficient, in your language