C&I ESS SOLUTION

BOS-B

Intelligent Control

- Peak-valley mgmt, anti-backflow,
- overload protection
  Load tracking, demand control, backup power, phase separation

Scalable

- Support up to 20 units in parallel, maximum 2MW/4.3MWh

Multi-Fusion

- Integrated EMS, PCS, and BMS
- Support expansion of MPPT module
- Support off-grid backup

Reliable

- Operating temp : -20°C to 55°C
- Operate up to 3000m altitude
- 1.1x overload capacity
- Balancing solutions extend battery life
- Triple auxiliary power design for stable supply

Easy Maintenance

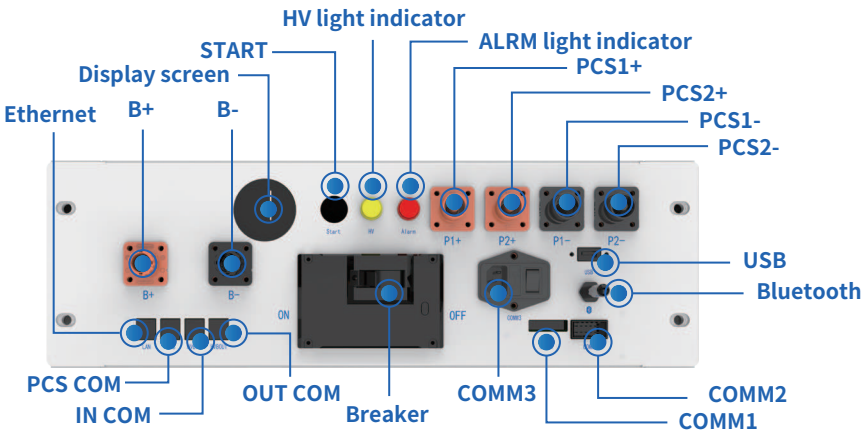
- 5U Standard Chassis
- User Interface & Bluetooth App
- USB & Cloud Upgrades
- TCP Protocol for EMS
- Fault Signal Input Support

Safer

- LFP batteries
- Support aerosol fire extinguishing

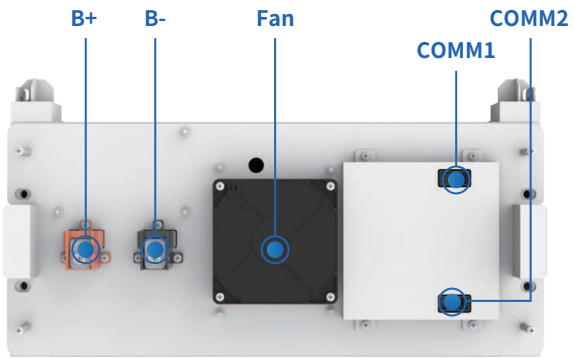
Battery Pack Accessories

Model	BOS-B-PDU-2
Operating Voltage	200~1000Vdc
Nominal Charge/Discharge Current	168A
Operating Temperature	-20~60°C
Ingress Protection	IP20
AC Input Rating	220±10%VAC/2A
Details	788.6×526×167.2(W×H×D),32kg



◎ 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-B-PDU-2 communication OUT COM .
◎ OUT COM:Connection position with next BOS-B-PDU-2 communication IN COM.
◎ Breaker:It is used to manually control the connection between the battery rack and external devices.
◎ COMM3:The product must be connected to the auxiliary power input AC200~240V-3A-50~60Hz when used.
◎ COMM1:Emergency power-off triggered the interface.
◎ COMM2:Communicative connection with the first battery module; and providing 12VDC power for the first battery module.
◎ Bluetooth:The mobile APP connects to the data acquisition rod of the energy storage system.
◎ B+:Battery common positive connection position (orange).
◎ 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).
◎ USB:BMS upgrade port and storage expansion port.

Model	BOS-B-Pack14.3
Nominal Capacity	280Ah
Nominal Energy	14.3kWh
Nominal Voltage	51.2Vdc
Max Charge/Discharge Current	168A
Ingress Protection	IP20
Operating Temperature(Charge)	0~55°C
Operating Temperature(Discharge)	-20~55°C
Storage Temperature	0~35°C
Details	795.9×526×274.2(W×H×D),123kg



◎ B+：Battery module positive pole (orange)
◎ B-：Battery module negative pole (black)
◎ Fan：Ventilation and heat dissipation.
◎ COMM1：Connection position of battery module communication and power supply input
◎ COMM2：Connection position of battery module communication and power supply output

100kW-2.5MW C&I ESS Solution

Model		BOS-B										
Main Parameter												
Battery Module Energy (kWh)		14.3										
Battery Module Nominal Voltage (V)		51.2										
Battery Module Capacity (Ah)		280										
Module Weight Approximate (kg)		123										
Battery Module Qty In Series (Optional)		15										
Scalability	PCS or Inverter	14-15 units for PCS on-grid applications, 15 units for PCS off-grid applications, 5-15 units for hybrid inverter systems										
	PCS + MPPT	15 units (on/off-grid) for MPPT Open-Circuit Voltage around 750V 14 units (on-grid) for MPPT Open-Circuit Voltage around 700V										
Battery Model Number		BOS-B70	BOS-B85	BOS-B100	BOS-B110	BOS-B125	BOS-B140	BOS-B155	BOS-B170	BOS-B185	BOS-B200	BOS-B215
Battery Module Qty In Series (Optional)		5	6	7	8	9	10	11	12	13	14	15
System Nominal Voltage (V)		256	307.2	358.4	409.6	460.8	512	563.2	614.4	665.6	716.8	768
System Operating Voltage (V)		208~292	249.6~350.4	291.2~408.8	332.8~467.2	374.4~525.6	416~584	457.6~642.4	499.2~700.8	540.8~759.2	582.4~817.6	624~876
System Energy (kWh)		71.5	85.8	100.1	114.4	128.7	143	157.3	171.6	185.9	200.2	215
System Usable Energy (kWh)		64.35	77.22	90.09	102.96	115.83	128.7	141.57	154.44	167.31	180.18	193.05
Rated DC Power(kWH)		43.008	51.6096	60.2112	68.8128	77.4144	86.016	94.6176	103.2192	111.8208	120.4224	129.024
Max.Charge/Discharge Current (A)		168										
Other Parameter												
Operating Temperature (°C)		discharge： -20 ~ 55 charge： 0 ~ 55										
Storage Temperature (°C)		0 ~ 35										
Thermal Management		Smart fan cooling										
LCD Display		SOC / Fault Code										
Status Indicator		Yellow : Battery High Voltage Power On Red : Battery System Alarm										
Communication Port		TCP / RS485 / CAN										
Communication With BMS		CAN										
Humidity		5% ~ 85%										
Altitude		⩽3000m										
IP Rating of Enclosure		IP20										
Noise (dB)		TBD										
System Dimension (W × H × D, mm)		1067 × 1136 × 800			1608 × 1136 × 800				2150 × 1136 × 800			
System Weight Approximate (kg)		680	803	926	1066	1189	1312	1435	1575	1698	1821	1944
Installation Location		Rack Mounted										
Recommend Depth of Discharge		90%										
Cycle Life		25±2°C, 0.5C / 0.5C, EOL70%⩾6000										
Warranty Period		10 years										
Certification		CE / IEC62619 / IEC62040 / UN38.3										

*Made in China

Typical Application Scenarios

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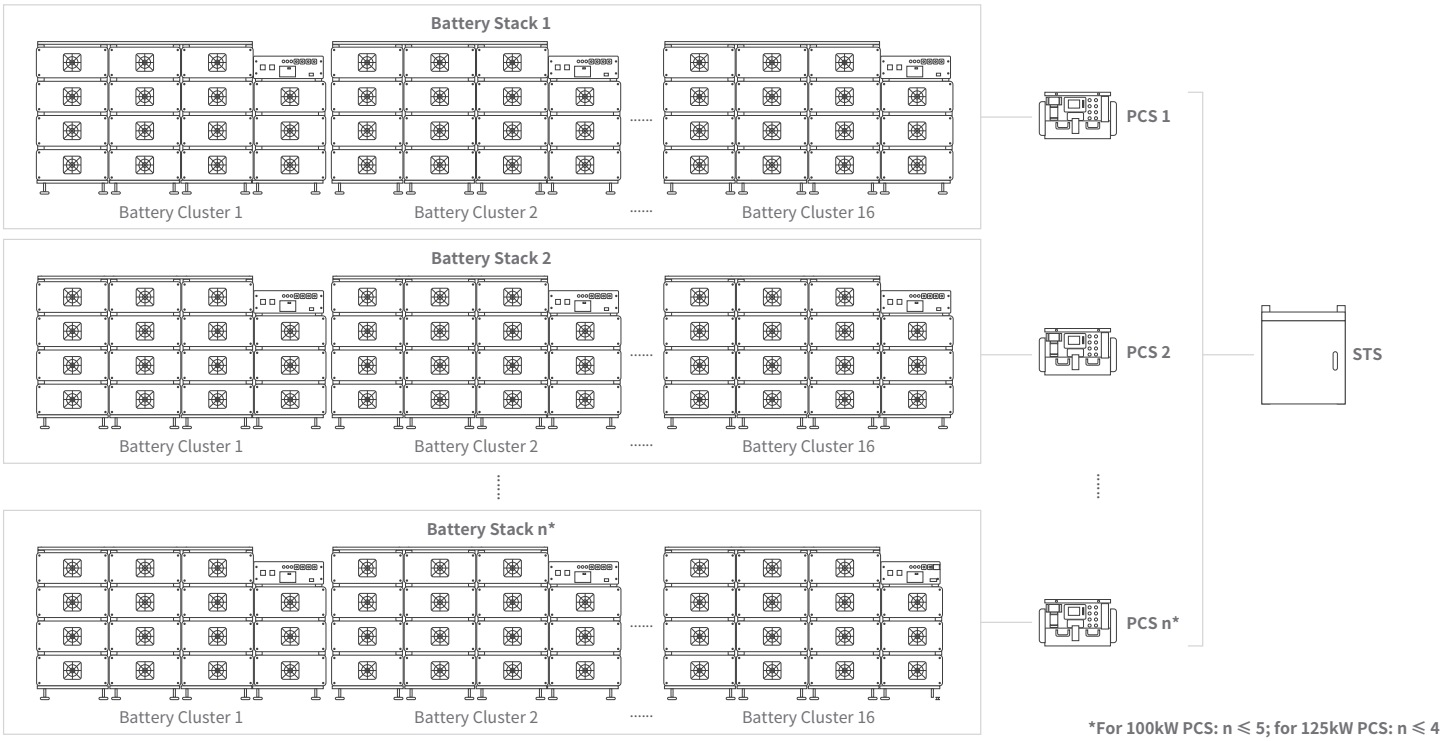
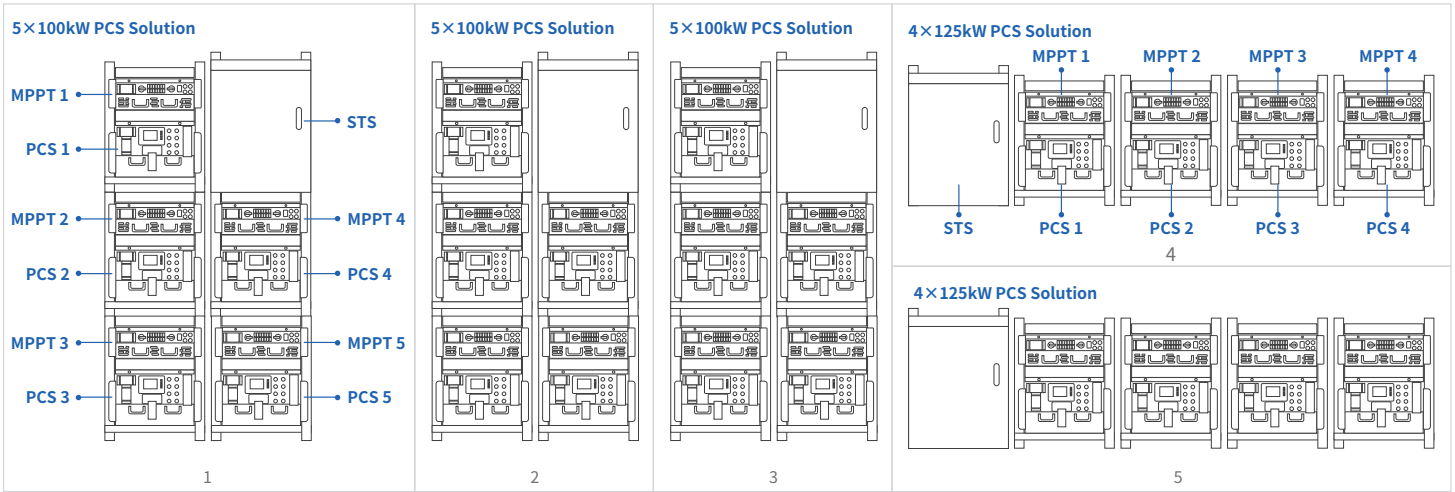
One PCS can support up to 16 racks of batteries in parallel

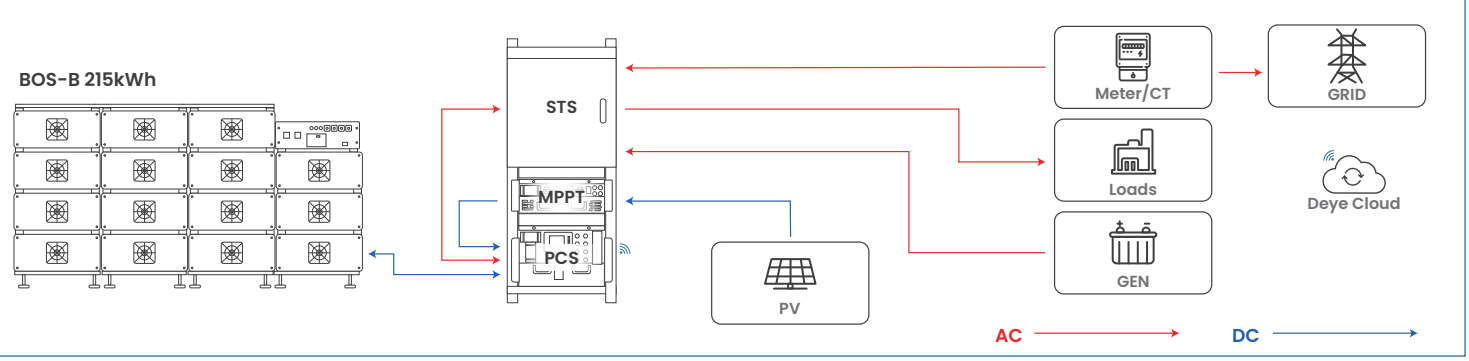


*For 100kW PCS: n ⩽ 5; for 125kW PCS: n ⩽ 4

One STS module can connect to five 100kW PCS modules or four 100kW PCS modules for parallel operation



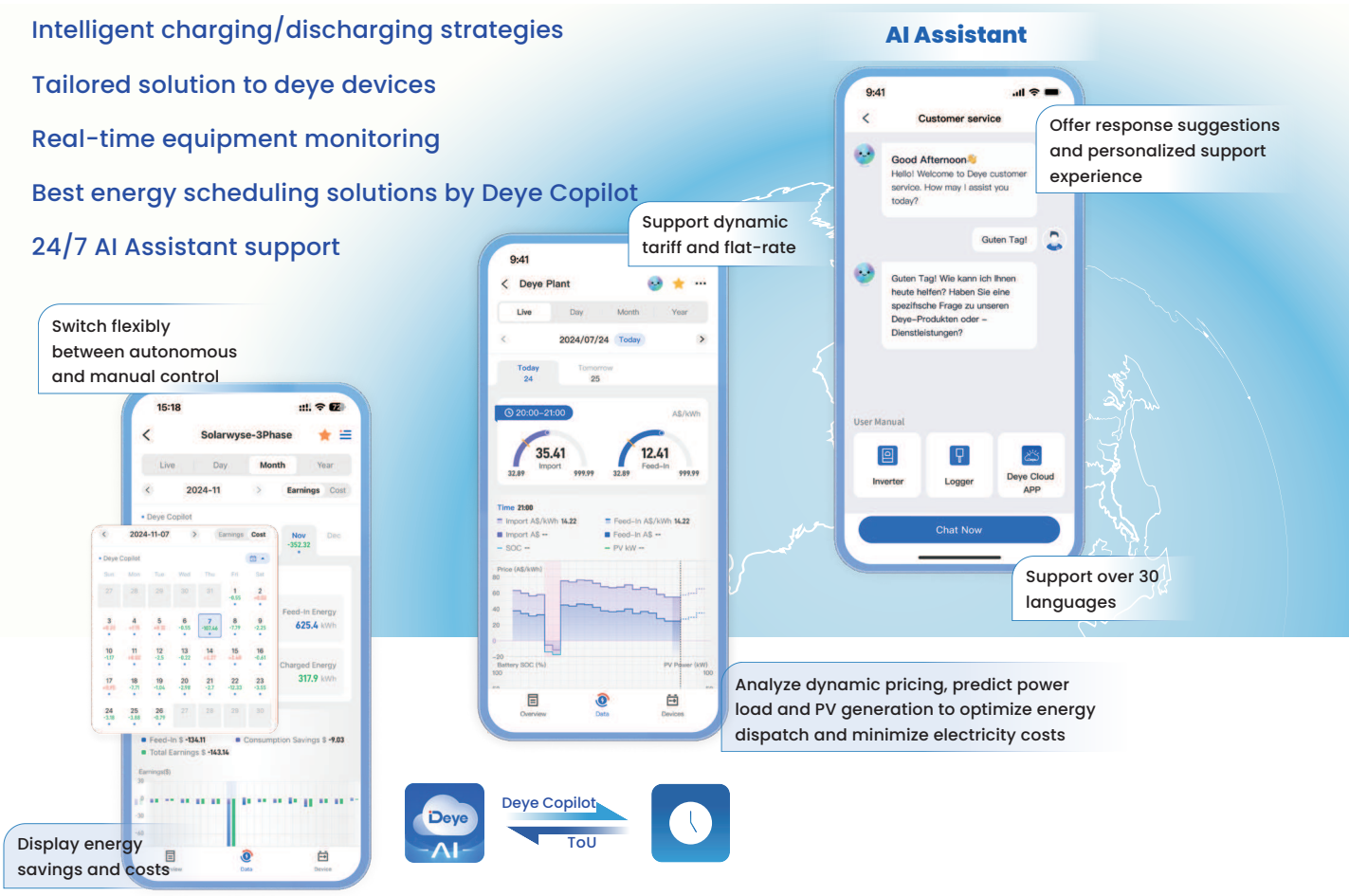
Five STS modules can provide parallel support for twenty-five 100kW PCS modules or twenty 125kW PCS modules, forming a 2.5MW system.



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