

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

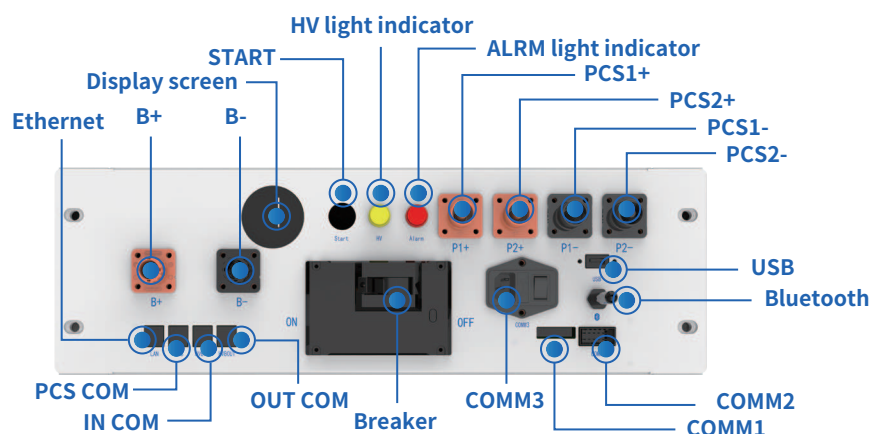
- 5U Standard Chassis
- User Interface & Bluetooth App
- USB & Cloud Upgrades
- TCP Protocol for EMS
- Fault Signal Input Support



Safer

- LFP batteries
- Support aerosol fire extinguishing

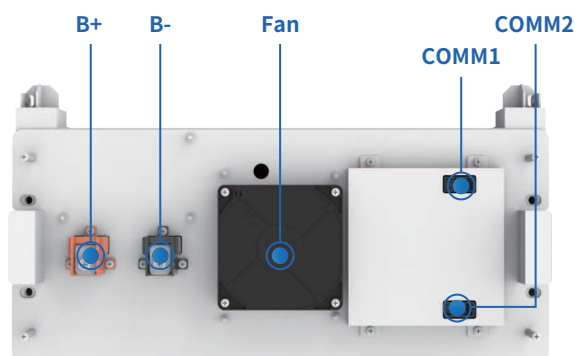
Model	BOS-B-PDU-2
Operating Voltage	200~1000Vdc
Nominal Charge/Discharge Current	168A
Operating Temperature	-20~60°C
Ingress Protection	IP20
AC Input Rating	220±10%VAC/2A
Details	788.6×526×167.2(W×H×D),32kg



- ◎ 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



Model BOS-B

Main Parameter

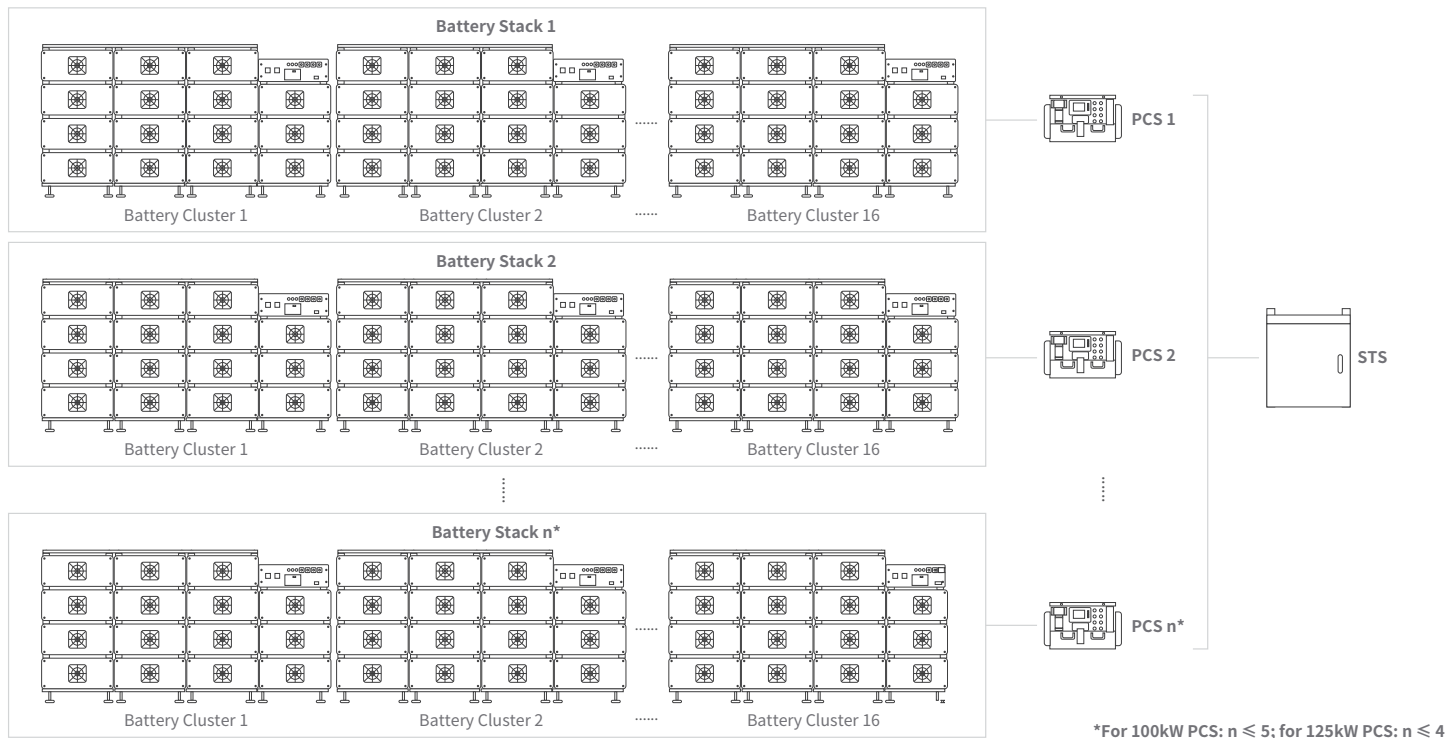
Battery Module Energy (kWh)	14.3
Battery Module Nominal Voltage (V)	51.2
Battery Module Capacity (Ah)	280
Module Weight Approximate (kg)	123
Battery Module Qty In Series (Optional)	15
Scalability	PCS or Inverter
	PCS + MPPT
14-15 units for PCS on-grid applications, 15 units for PCS off-grid applications, 5-15 units for hybrid inverter systems	
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 85.8 100.1 114.4 128.7 143 157.3 171.6 185.9 200.2 214.5
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

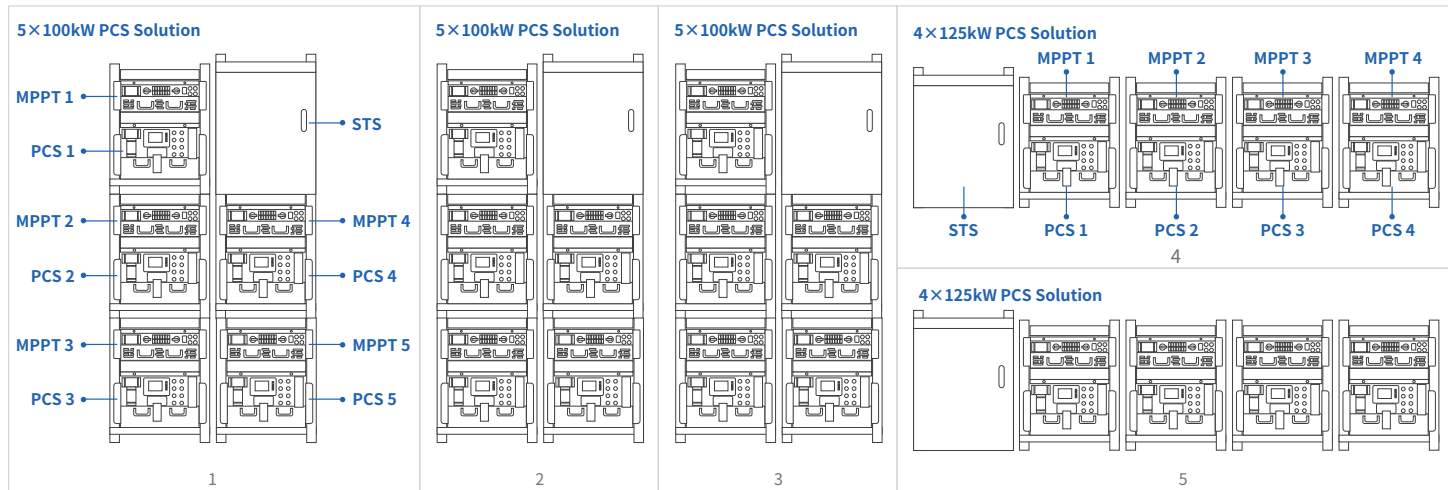
Operating Temperature (°C)	discharge : -20 ~ 55 charge : 0 ~ 55
Storage Temperature (°C)	0 ~ 35
Thermal Management	Smart fan cooling
LCD Display	SOC / Fault Code
Status Indicator	Yellow : Battery High Voltage Power On Red : Battery System Alarm
Communication Port	TCP / RS485 / CAN
Communication With 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

Typical Application Scenarios

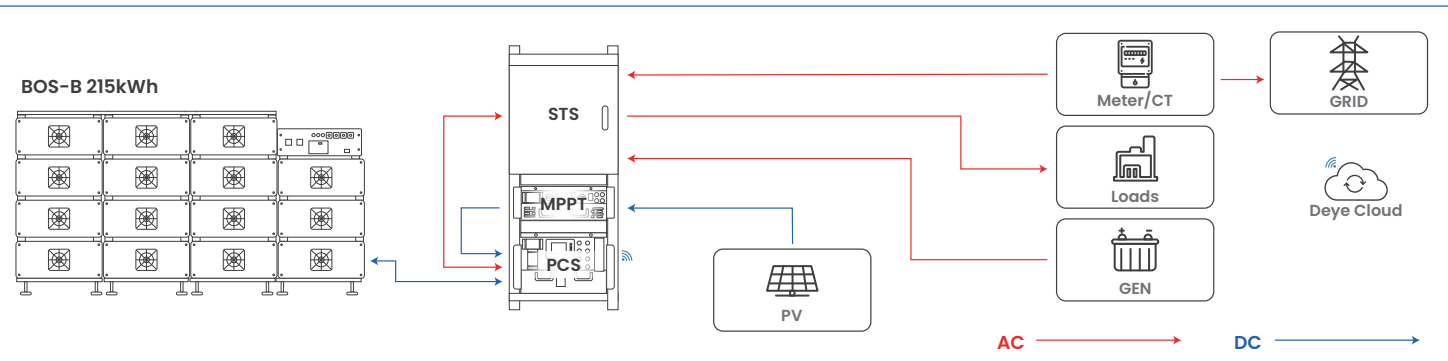
One PCS can support up to 16 racks of batteries in parallel



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



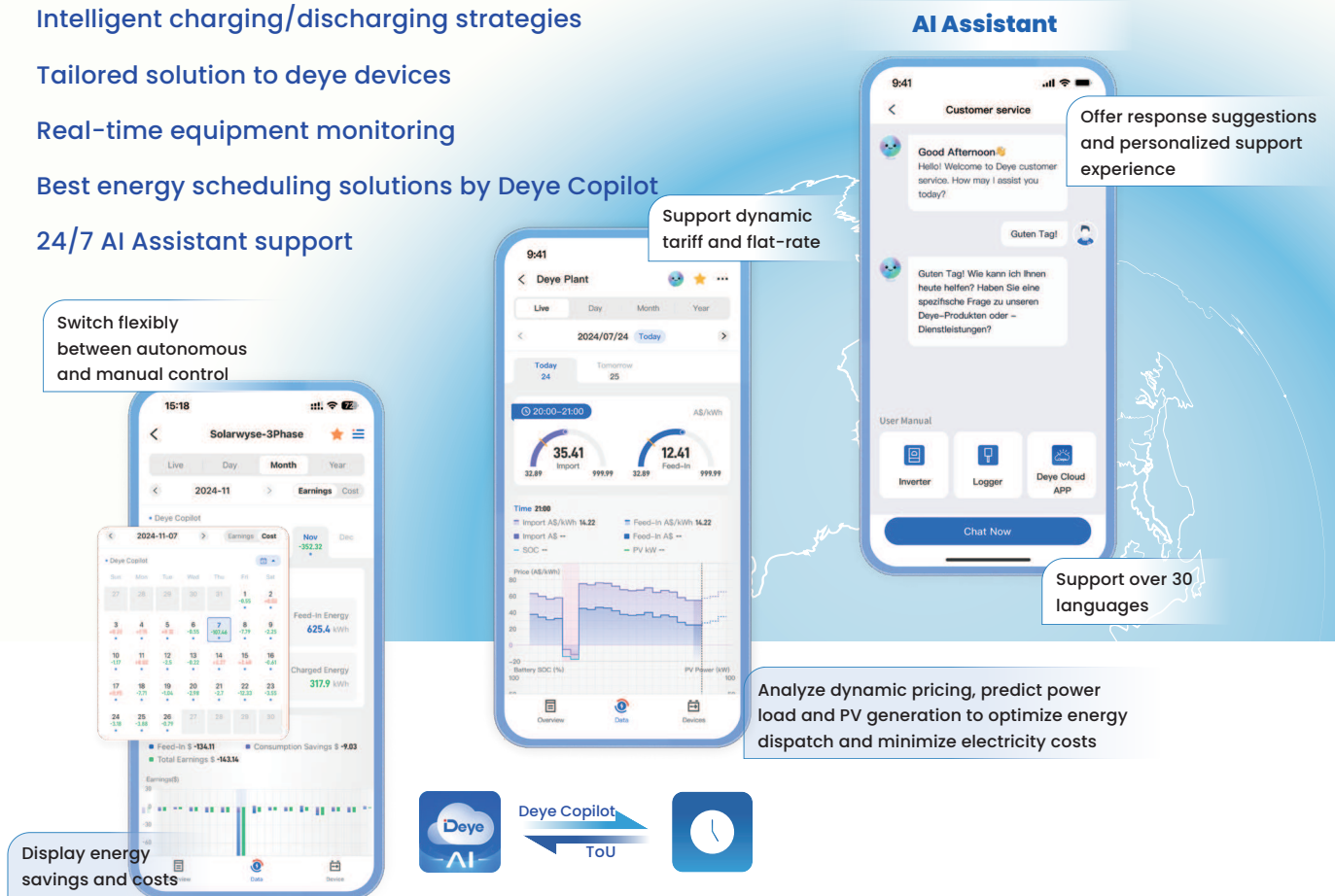
Five STS modules can provide parallel support for twenty-five 100kW PCS modules or twenty 125kW PCS modules, forming a 2.5MW system.



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