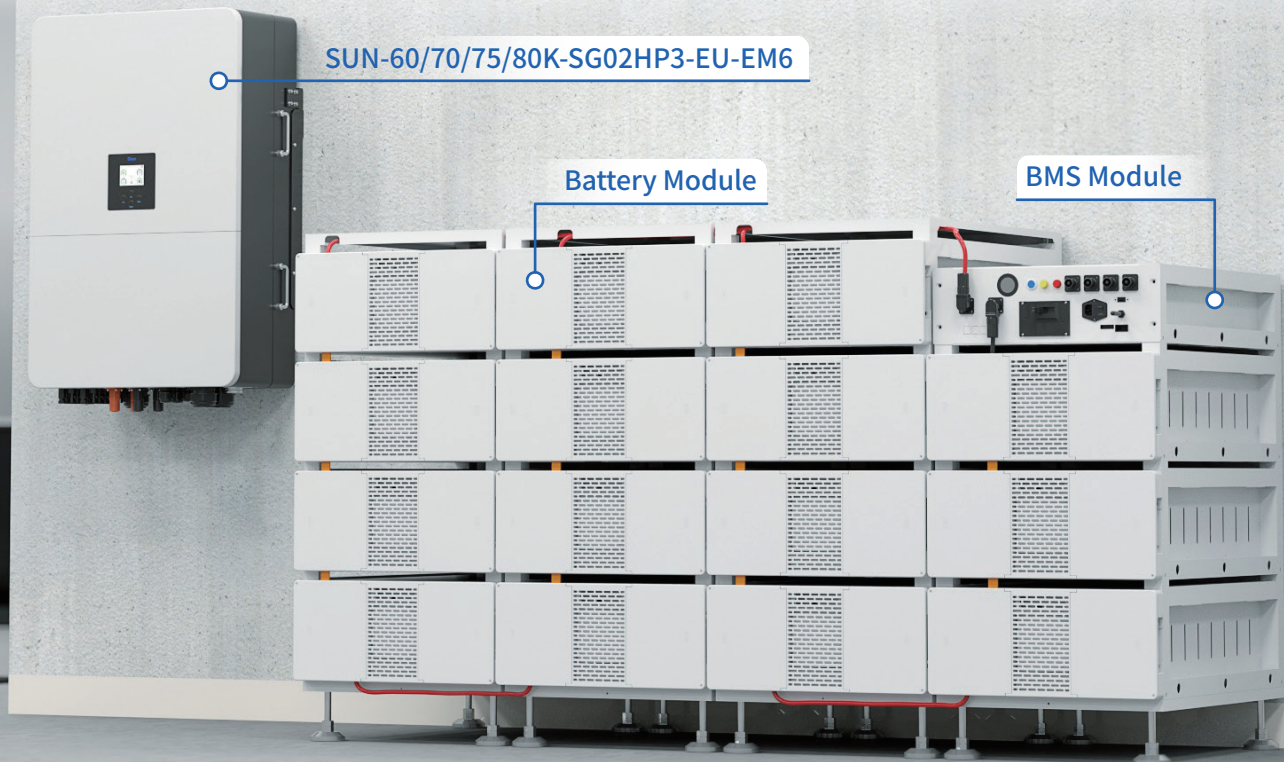


C&I ESS SOLUTION

BOS-B Pro-A3



SUN-(29.9-50)K-SG02HP3-EU-BM4-P / SUN-60/70/75/80K-SG02HP3-EU-EM6 /
SUN-100/125K-SG02HP3-EU-GM10



Practicality & Universal Compatibility

- 100% unbalanced output
- AC couple to retrofit existing solar system
- Dual Independent battery circuit



Versatile & High-Performance

- TOU function, Six time periods for battery charging/discharging
- Diesel generator-ready, VSG application



Reliability & Scalability

- Max. 10 pcs parallel for on-grid and off-grid operation
- Seamless switching between on-grid and off-grid modes in less than 10ms

BOS-B Pro-A3



Intelligent Control

- Peak-valley mgmt, anti-backflow
- Overload protection, load tracking, demand control, backup power, phase separation



Reliable

- Operating temp : -20°C to 55°C
- Operate up to 3000m altitude
- 1.1x overload capacity
- Balancing solutions extend battery life



Easy Maintenance

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



Scalable

- Support up to 16 units in parallel, maximum 2.2MW/3.8MWh



Safer

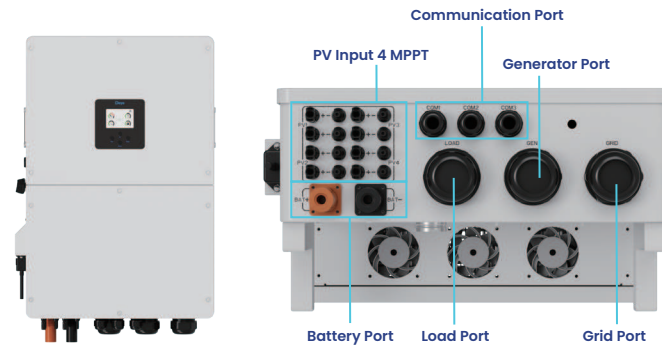
- LFP batteries
- Support aerosol fire extinguishing



Eco-friendly

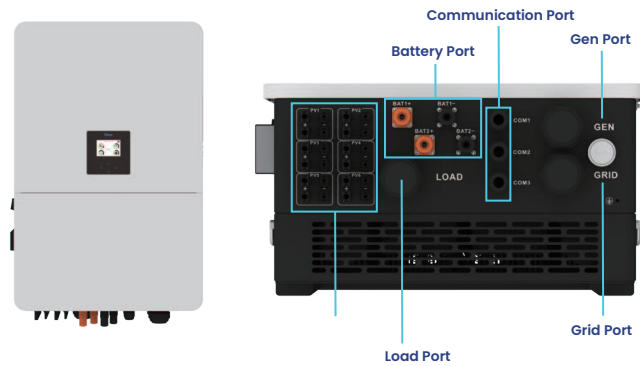
- The whole module is non-toxic, non-polluting and environmentally friendly

SUN-(29.9-50)K-SG02HP3-EU-BM4-P



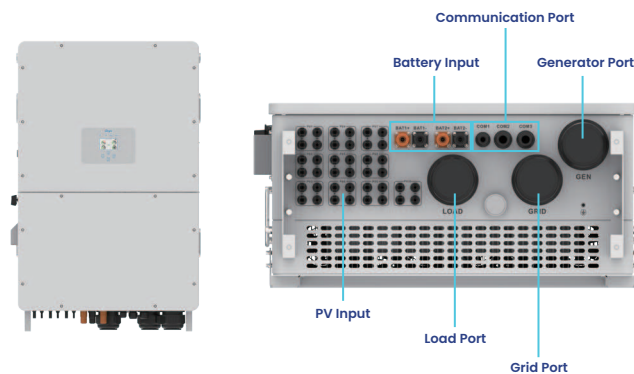
- ◎ Battery Port: Dual independent battery circuit port, supporting multiple brand battery connection and battery voltage range 160-800V.
- ◎ Communication Port: Serve as communicate with battery and data exchange between inverter and extra devices.
- ◎ Load Port: Offer AC power to connected loads.
- ◎ Grid Port: Connect to utility grid, for bidirectional power transfer: importing from and exporting to the grid.
- ◎ Generator Port: Connect to diesel generator for backup power supply during outages, also can connect with existing solar inverter for AC Coupling.
- ◎ PV Input: Connect to PV panels with 4 MPPTs.

SUN-60/70/75/80K-SG02HP3-EU-EM6



- ◎ Battery Port: Dual independent battery circuit port, supporting multiple brand battery connection and battery voltage range 160-1000V.
- ◎ Communication Port: Serve as communicate with battery and data exchange between inverter and extra devices.
- ◎ Load Port: Offer AC power to connected loads.
- ◎ Grid Port: Connect to utility grid, for bidirectional power transfer: importing from and exporting to the grid.
- ◎ Generator Port: Connect to diesel generator for backup power supply during outages, also can connect with existing solar inverter for AC Coupling.
- ◎ PV Input: Connect to PV panels with 6 MPPTs.

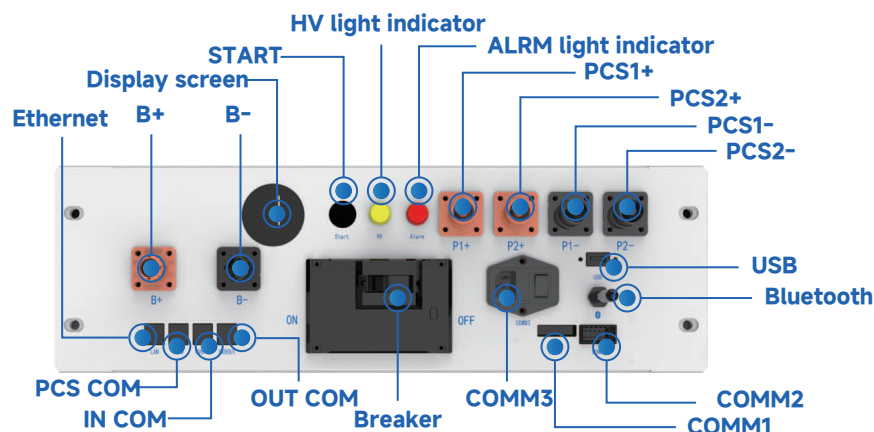
SUN-100/125K-SG02HP3-EU-GM10



- ◎ Battery Port: Dual independent battery circuit port, supporting multiple brand battery connection and battery voltage range 160-1000V.
- ◎ Communication Port: Serve as communicate with battery and data exchange between inverter and extra devices.
- ◎ Load Port: Offer AC power to connected loads.
- ◎ Grid Port: Connect to utility grid, for bidirectional power transfer: importing from and exporting to the grid.
- ◎ Generator Port: Connect to diesel generator for backup power supply during outages, also can connect with existing solar inverter for AC Coupling.
- ◎ PV Input: Connect to PV panels with 10 MPPTs.

Model	BOS-B-PDU-2-A
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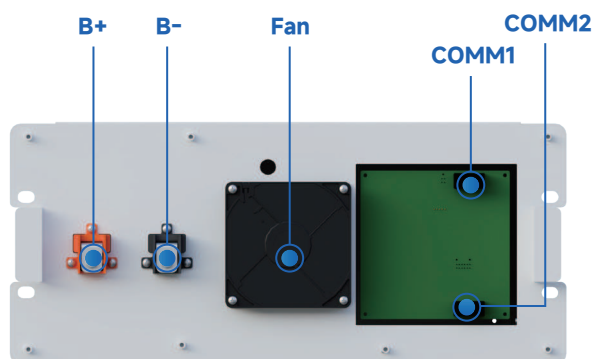
Operating Voltage	200~1000Vdc
Nominal Charge/Discharge Current	180A
Operating Temperature	-20~60°C
Ingress Protection	IP20
AC Input Rating	220±10%VAC/2A
Details	526×788.6×167.2(W×D×H),32kg



- © 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.

Model	BOS-B-Pack16-A3
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Nominal Capacity	314Ah
Nominal Energy	16.08kWh
Nominal Voltage	51.2Vdc
Max Charge/Discharge Current	180A
Ingress Protection	IP20
Operating Temperature(Charge)	0~55°C
Operating Temperature(Discharge)	-20~55°C
Storage Temperature	0~35°C
Details	526×795.9×274.2(W×D×H),126kg



- © 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-AP-B
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This Accessories Package is designed for use with the 80kW Hybrid Inverter, and primarily includes the following cables:

Positive Power Cable: 3AWG_3000mm*2, 1AWG_2500mm*1, 1AWG_1000mm*1

Negative Power Cable: 3AWG_3000mm*2, 1AWG_240mm*1

PE Cable: 10AWG_600mm*1

Model	SUN-29.9K-SG02HP3 -EU-BM3-P	SUN-30K-SG02HP3 -EU-BM3-P	SUN-35K-SG02HP3 -EU-BM3-P	SUN-40K-SG02HP3 -EU-BM4-P	SUN-50K-SG02HP3 -EU-BM4-P
Battery Input Data					
Battery Type	Lithium-ion				
Battery Voltage Range (V)	160-800				
Max. Charging Current (A)	160				
Max. Discharging Current (A)	160				
Charging Strategy for Li-ion Battery	Self-adaption to BMS				
Number of Battery Input	1				
PV String Input Data					
Max. PV Access Power (W)	59800	60000	70000	80000	100000
Max. PV Input Power (W)	47840	48000	56000	64000	80000
Max. PV Input Voltage (V)	1000				
Start-up Voltage (V)	180				
MPPT Voltage Range (V)	150-850				
Rated PV Input Voltage (V)	600				
Max. Operating PV Input Current (A)	36+36+36			36+36+36+36	
Max. Input Short-Circuit Current (A)	55+55+55			55+55+55+55	
No. of MPP Trackers/ No. of Strings MPP Tracker	3/2+2+2			4/2+2+2+2	
AC Input/Output Data					
Rated AC Input/Output Active Power(W)	29900	30000	35000	40000	50000
Max. AC Input/Output Apparent Power(VA)	29900	33000	38500	44000	55000
Rated AC Input/Output Current (A)	45.4/43.4	45.5/43.5	53.1/50.8	60.7/58	75.8/72.5
Max. AC Input/Output Current (A)	45.4/43.4	50/47.9	58.4/55.8	66.7/63.8	83.4/79.8
Max. Continuous AC Passthrough (grid to load) (A)	200				
Peak Power (off-grid) (W)	1.5 times of rated power, 10s				
Power Factor Adjustment Range	0.8 leading to 0.8 lagging				
Rated Input/Output Voltage/Range (V)	220/380V, 230/400V 0.85Un-1.1Un				
Rated Input/Output Grid Frequency/Range(Hz)	50/45-55, 60/55-65				
Grid Connection Form	3L+N+PE				
Total Current Harmonic Distortion THDi	<3% (of nominal power)				
DC Injection Current	<0.5% In				
Efficiency					
Max. Efficiency	97.60%				
Euro Efficiency	97.0%				
MPPT Efficiency	>99%				
Equipment Protection					
Integrated	DC Reverse Polarity Protection, AC Output Overcurrent Protection, Thermal Protection, AC Output Overvoltage Protection, AC Output Short Circuit Protection, DC Component Monitoring, Arc Fault Circuit Interrupter (optional), Anti-islanding Protection, DC Switch, Insulation Impedance Detection, Residual Current Detection				
Surge Protection Level	TYPE II(DC), TYPE II(AC)				
Interface					
LCD/LED Display	LCD				
Communication Interface	WIFI/RS485/CAN				
Monitor Mode	GPRS/WIFI/Bluetooth/4G				
General Data					
Operating Temperature Range(°C)	-40 to +60°C, >45°C Derating				
Permissible Ambient Humidity	0-100%				
Permissible Altitude	3000m				
Noise(dB)	≤65				
Ingress Protection (IP) Rating	IP65				
Inverter Topology	Non-Isolated				
Over Voltage Category	OVC II(DC), OVC III(AC)				
Cabinet Size (WxHxD mm)	528×793×278(Excluding Connectors and Brackets)				
Weight (kg)	65				
Type of Cooling	Intelligent Air Cooling				
Warranty	Standard 5 years, extended warranty				
Grid Regulation	IEC 61727, IEC 62116, CEI 0-21, EN 50549, NRS 097, RD 140, UNE 217002, OVE-Richtlinie R25, G99, VDE-AR-N 4105				
Safety / EMC Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2				

Model	SUN-60K-SG02HP3 -EU-EM6		SUN-70K-SG02HP3 -EU-EM6		SUN-75K-SG02HP3 -EU-EM6		SUN-80K-SG02HP3 -EU-EM6	
Battery Input Data								
Battery Type	Lithium-ion							
Battery Voltage Range (V)	160-1000							
Max. Charging Current (A)	80+80							
Max. Discharging Current (A)	80+80							
Charging Strategy for Li-ion Battery	Self-adaption to BMS							
Number of Battery Input	2							
PV String Input Data								
Max. PV Access Power (W)	120000	140000	150000	160000				
Max. PV Input Power (W)	96000	112000	120000	128000				
Max. PV Input Voltage (V)	1000							
Start-up Voltage (V)	180							
MPPT Voltage Range (V)	150-850							
Rated PV Input Voltage (V)	650							
Max. Operating PV Input Current (A)	36+36+36+36+36+36							
Max. Input Short-Circuit Current (A)	54+54+54+54+54+54							
No. of MPP Trackers/ No. of Strings MPP Tracker	6/2+2+2+2+2							
AC Input/Output Data								
Rated AC Input/Output Active Power(W)	60000	70000	75000	80000				
Max. AC Input/Output Apparent Power(VA)	66000	77000	82500	88000				
Rated AC Input/Output Current (A)	91/87	106.1/101.5	113.7/108.7	121.3/116				
Max. AC Input/Output Current (A)	100/95.7	116.7/111.6	125/119.6	133.4/127.6				
Max. Continuous AC Passthrough (grid to load) (A)	200							
Peak Power (off-grid) (W)	1.5 times of rated power, 10s							
Power Factor Adjustment Range	0.8 leading to 0.8 lagging							
Rated Input/Output Voltage/Range (V)	220/380V, 230/400V 0.85Un-1.1Un							
Rated Input/Output Grid Frequency/Range(Hz)	50/45-55,60/55-65							
Grid Connection Form	3L+N+PE							
Total Current Harmonic Distortion THDi	<3% (of nominal power)							
DC Injection Current	<0.5% In							
Efficiency								
Max. Efficiency	98.70%							
Euro Efficiency	98.10%							
MPPT Efficiency	>99%							
Equipment Protection								
Integrated	DC Reverse Polarity Protection, AC Output Overcurrent Protection, Thermal Protection, AC Output Overvoltage Protection, AC Output Short Circuit Protection, DC Component Monitoring, Arc Fault Circuit Interrupter (optional), Anti-islanding Protection, DC Switch, Insulation Impedance Detection, Residual Current Detection							
Surge Protection Level	TYPE II(DC), TYPE II(AC)							
Interface								
Communication Interface	RS485/RS232/CAN							
Monitor Mode	GPRS/WIFI/Bluetooth/4G/LAN(optional)							
General Data								
Operating Temperature Range(°C)	-40 to +60°C, >45°C Derating							
Permissible Ambient Humidity	0-100%							
Permissible Altitude	3000m							
Noise(dB)	≤65							
Ingress Protection (IP) Rating	IP65							
Inverter Topology	Non-Isolated							
Over Voltage Category	OVC II(DC), OVC III(AC)							
Cabinet Size (WxHxD mm)	606×927×314 (Excluding Connectors and Brackets)							
Weight (kg)	105							
Type of Cooling	Smart cooling							
Warranty	Standard 5 years, extended warranty							
Grid Regulation	IEC 61727, IEC 62116, CEI 0-21, EN 50549, NRS 097, RD 140, UNE 217002, OVE-Richtlinie R25, G99, VDE-AR-N 4105							
Safety / EMC Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2							

Model	SUN-100K-SG02HP3-EU-GM10		SUN-125K-SG02HP3-EU-GM10	
Battery Input Data				
Battery Type	Lithium-ion			
Battery Voltage Range (V)	160-1000			
Max. Charging Current (A)	100+100			
Max. Discharging Current (A)	100+100			
Charging Strategy for Li-ion Battery	Self-adaption to BMS			
Number of Battery Input	2			
PV String Input Data				
Max. PV Access Power (W)	200000	250000		
Max. PV Input Power (W)	160000	200000		
Max. PV Input Voltage (V)	1000			
Start-up Voltage (V)	180			
MPPT Voltage Range (V)	150-850			
Rated PV Input Voltage (V)	600			
Max. Operating PV Input Current (A)	42+42+42+42+42+42+42+42+42+42			
Max. Input Short-Circuit Current (A)	63+63+63+63+63+63+63+63+63+63			
No. of MPP Trackers/ No. of Strings MPP Tracker	10/2+2+2+2+2+2+2+2+2+2			
AC Input/Output Data				
Rated AC Input/Output Active Power (W)	100000	125000		
Max. AC Input/Output Apparent Power (VA)	110000	135000		
Rated AC Input/Output Current (A)	151.6/145.0	189.4/181.2		
Max. AC Input/Output Current (A)	166.7/159.5	204.6/195.7		
Max. Continuous AC Passthrough (grid to load)(A)	250			
Power Factor Adjustment Range	0.8 leading to 0.8 lagging			
Rated Input/Output Voltage/Range (V)	220/380V, 230/400V			
Rated Input/Output Grid Frequency/Range(Hz)	50/45-55, 60/55-65			
Grid Connection Form	3L+N+PE			
Total Current Harmonic Distortion THDi	<3% (of nominal power)			
DC Injection Current	<0.5% In			
Efficiency				
Max. Efficiency	98.7%			
Euro Efficiency	98.10%			
MPPT Efficiency	>99%			
Equipment Protection				
Integrated	DC Reverse Polarity Protection, AC Output Overcurrent Protection, Thermal Protection, AC Output Overvoltage Protection, AC Output Short Circuit Protection, DC Component Monitoring, Arc Fault Circuit Interrupter (AFCI) (optional), Anti-islanding Protection, DC Switch, Insulation Impedance Detection, Residual Current Detection			
Surge Protection Level	TYPE II(DC), TYPE II(AC)			
Interface				
LCD/LED Display	LCD+LED			
Communication Interface	RS485,RS232,CAN			
Monitor Mode	GPRS/WIFI/Bluetooth/4G/LAN(optional)			
General Data				
Operating Temperature Range (°C)	-40 to +60, >45 Derating			
Permissible Ambient Humidity	0-100%			
Permissible Altitude	3000m			
Noise (dB)	≤ 65			
Ingress Protection(IP) Rating	IP 65			
Inverter Topology	Non-Isolated			
Over Voltage Category	OVC II(DC), OVC III(AC)			
Cabinet Size (WxHxD mm)	734×1091×344 (Excluding Connectors and Brackets)			
Weight (kg)	161.7			
Type of Cooling	Smart cooling			
Warranty	5 Years/10 Years the Warranty Period Depends the Final Installation Site of Inverter, More Info Please Refer to Warranty Policy			
Grid Regulation	IEC 61727, IEC 62116, CEI 0-21, EN 50549, NRS 097, RD 140, UNE 217002, OVE-Richtlinie R25, G99, VDE-AR-N 4105			
Safety / EMC Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2			



Model	BOS-B Pro-A3
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Main Parameter	
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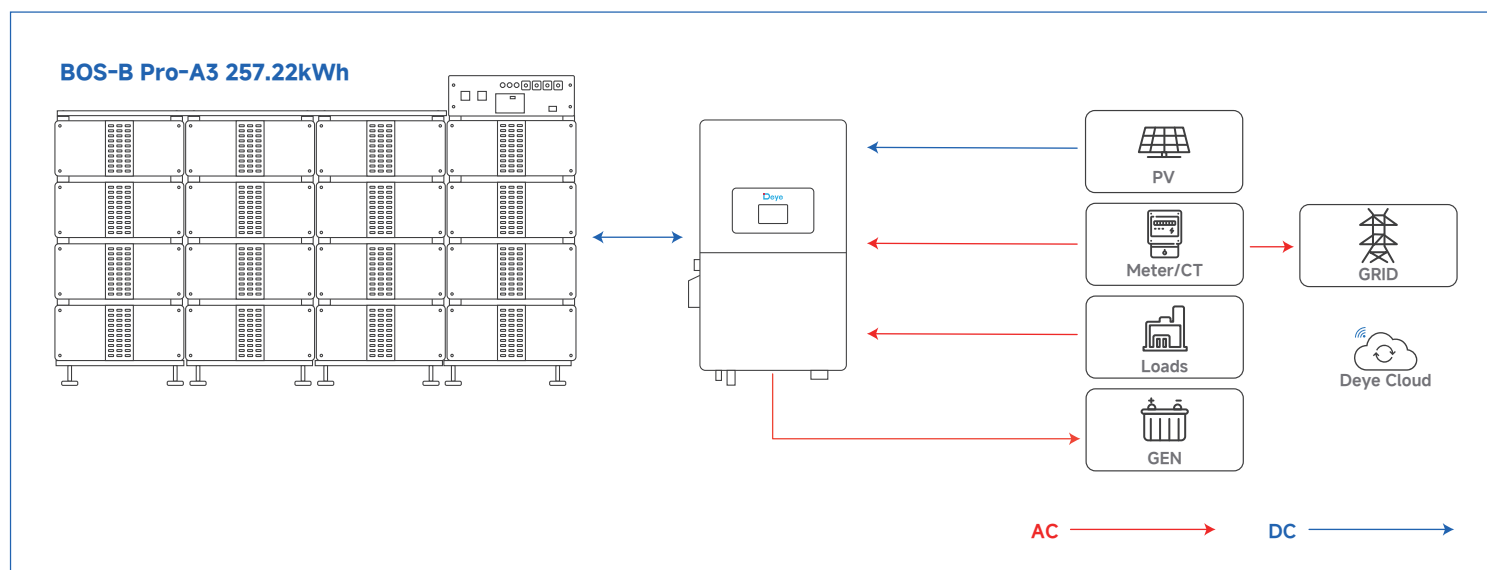
Battery Module Energy (kWh)	16.08
Battery Module Nominal Voltage (V)	51.2
Battery Module Capacity (Ah)	314
Module Weight Approximate (kg)	126
Battery Module Qty In Series (Optional)	5~16
Max.System Nominal Voltage (V)	819.2
Max.System Energy (kWh)	257.2
Max.System Usable Energy (kWh)	231.5
Max.Charge/Discharge Current (A)	180

Other Parameter	
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Operating Temperature (°C)	Charge : 0 ~ 55 Discharge : -20 ~ 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
System Dimension (W × H × D, mm)	2150 × 1305 × 800
System Weight Approximate (kg)	2240
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

Solution	Inverter model	Batteries Configuration
2h	SUN-100K-SG02HP3-EU-GM10	11units (BOS-B176 Pro-A3)
	SUN-125K-SG02HP3-EU-GM10	14units (BOS-B224 Pro-A3)
	SUN-50K-SG02HP3-EU-BM4-P	7 units (BOS-B112 Pro-A3)
	SUN-60K-SG02HP3-EU/AU-EM6	8 units (BOS-B128 Pro-A3)
	SUN-80K-SG02HP3-EU/AU-EM6	10 units (BOS-B160 Pro-A3)
3h	SUN-30K-SG02HP3-EU-BM3-P	5 units (BOS-B80 Pro-A3)
	SUN-50K-SG02HP3-EU-BM4-P	10 units (BOS-B160 Pro-A3)
	SUN-60K-SG02HP3-EU/AU-EM6	11 units (BOS-B176 Pro-A3)
	SUN-80K-SG02HP3-EU/AU-EM6	15 units (BOS-B240 Pro-A3)
4h	SUN-30K-SG02HP3-EU-BM3	8 units (BOS-B128 Pro-A3)
	SUN-50K-SG02HP3-EU-BM4	13 units (BOS-B208 Pro-A3)
	SUN-60K-SG02HP3-EU/AU-EM6	15 units (BOS-B240 Pro-A3)



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 algorithm
- 24/7 AI Assistant support

Switch flexibly between autonomous and manual control

Support dynamic tariff and flat-rate

AI Assistant

Offer response suggestions and personalized support experience

Support over 30 languages

Analyze dynamic pricing, predict power load and PV generation to optimize energy dispatch and minimize electricity costs

Display energy savings and costs

Deye Copilot ToU

Smarten Up Your Home Energy

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
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