

Multi-fusion

- Integrated EMS, PCS, and BMS
- Support expansion of MPPT module
- Support off-grid backup power and diesel generator integration
- Support black start function

Intelligent control

- Precision thermal management keeps battery temperature under 35°C, reducing power consumption
- Intelligent BMS provides complete protection
- Intelligent EMS enables peak-valley arbitrage, anti-backflow, transformer overload protection, load tracking, demand control, backup power and phase separation

Easy Maintenance

- 5U standard chassis with simple stacking for easy installation
- User interface and Bluetooth App for quick fault diagnosis and detailed battery data
- Support local USB and remote cloud platform upgrades
- Support TCP protocol for client EMS integration
- Remote or local fault signal input for rapid emergency shutdown

Scalable

- Support up to 3 units off-grid backup, maximum 300kW
- Support up to 20 units on-grid in parallel, maximum 2MW/4.3MWh
- Support up to 10 units off-grid in parallel, maximum 1MW/2.15MWh

Reliable

- Support 1.1 times overload for long-term operation
- Balancing solutions effectively extend battery cycle life
- Triple auxiliary power design ensures stable power supply
- Operating temperature: -20°C ~ 55°C
- Operate at altitudes up to 3000 meters

Safer

- Lithium Iron Phosphate (LFP) batteries
- Supports aerosol fire extinguishing solution

Technical Data



Deye BOS-B

Main Parameter	Battery Type	BOS-B215		
	Battery Module Energy (kWh)	14.3		
	Battery Module Nominal Voltage (V)	51.2		
	Battery Module Capacity (Ah)	280		
	Module Weight Approximate (kg)	122		
	Battery Module Qty In Series (Optional)	15		
	Scalability	5 ~ 15		
	System Nominal Voltage (V)	720		
	System Energy (kWh)	214.5		
	System Usable Energy (kWh)	193.05		
	Charge/Discharge Current (A)	Recommend	140	
		Max	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)	65	
	System Dimension (W × H × D, mm)	2150 × 1136 × 800	
	System Weight Approximate (kg)	1850	
	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	

Technical Data



Deye SUN-MPPT-L01-EU-AM6

PV String Input Data	Max. PV Input Power(kW)	150
	Max. PV Input Voltage(V)	1000
	Start-up Voltage(V)	200
	MPPT voltage range(V)	180-850
	Full Load MPPT Voltage Range(V)	450-850
	Rated PV Input voltage(V)	600
	Max. Input Short Circuit Current (A)	60+60+60+60+60+60
	Max. Operating PV Input Current(A)	40+40+40+40+40+40
	No. of MPP Trackers	6
Efficiency	Max. Efficiency	>99%
	MPPT Efficiency	>99.9%
Equipment Protection	DC input reverse protection	YES
	DC ARC protection	Optional
	Anti-PID(Potential Induced Degradation)	Optional
	DC Input Switch	YES
	Surge Protection Level	TYPE II
General Data	Operating Temperature Range (°C)	-25°C to 60°C
	Permissible Ambient Humidity	0~95%
	Permissible Altitude (m)	4000m
	Ingress Protection(IP) Rating	IP20
	Over Voltage Category	OVC II
	Cabinet Size (W × H × D) [mm]	610 × 440 × 177.8
	Weight [kg]	32
	Type Of Cooling	Intelligent air cooling
	Safety EMC/Standard	IEC/EN 62109-1
Features	DC port/AC port	OT terminal
	Display	LED
	Communication Interface	CAN/RS485

Technical Data



Deye SUN-100K-PCS01HP3-EU

Battery Data	Battery Type	Lithium-ion
	Battery Voltage Range(V)	630-1000
	Max.Charging Current(A)	175
	Max.Discharging Current(A)	175
	Charging Strategy for Li-ion Battery	Self-adaption to BMS
	Number of battery input	1
AC Input/ Output Data	Rated AC Input/Output Active Power (W)	100000
	Max. AC Input/Output Apparent Power (VA)	110000
	Rated AC Input/Output Current (A)	151.6/145
	Max. AC Input/Output Current (A)	166.7/159.5
	Max. Output Fault Current	383A
	Max. Output Overcurrent Protection	383A
	Rated Input/Output Voltage/Range(V)	220/380V, 230/400V 0.85Un-1.1Un
	Grid Connection Form	3L+N+PE
	Rated Input/Output Grid Frequency/Range	50Hz/45Hz-55Hz 60Hz/55Hz-65Hz
	Power Factor Adjustment Range	0.8 leading-0.8lagging
	Total Current Harmonic Distortion THDi	<3%
	DC Injection Current	<0.5%In
	Efficiency	Max. Efficiency
Euro Efficiency		97.0%
MPPT Efficiency		>99%
Equipment Protection	AC Output Overcurrent Protection	yes
	AC Output Overvoltage Protection	yes
	AC Output Short Circuit Protection	yes
	Thermal Protection	yes
	DC Terminal Insulation Impedance Monitoring	yes
	Ground Fault Current Monitoring	yes
	Power Network Monitoring	yes
	Island Protection Monitoring	yes
	Earth Fault Detection	yes
	Overvoltage Load Drop Protection	yes
	Residual Current (RCD) Detection	yes
	Surge Protection Level	TYPE II(DC),TYPE II(AC)

Technical Data



Deye SUN-100K-PCS01HP3-EU

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Interface	LCD/LED display	LCD
	Communication Interface	WIFI,RS485,CAN,Meter
General Data	Max. operating frequency (Hz)	200M
	Operating Temperature Range	-25°C-60°C,>45°C Derating
	Permissible Ambient Humidity	0~95%
	Permissible Altitude	4000m
	Ingress Protection(IP) Rating	IP 65
	Inverter Topology	Non-Isoltaed
	Over Voltage category	OVC II(DC),OVC III(AC)
	Cabinet size (W*H*D) [mm]	440*730*310 (Excluding connectors and brackets)
	Weight[kg]	60
	Warranty	Standard 5 years, extended warranty
	Type Of Cooling	Intelligent air cooling
	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	EC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2,IEC/EN 62477-1

Technical Data



Deye SUN-ATS300L-EU

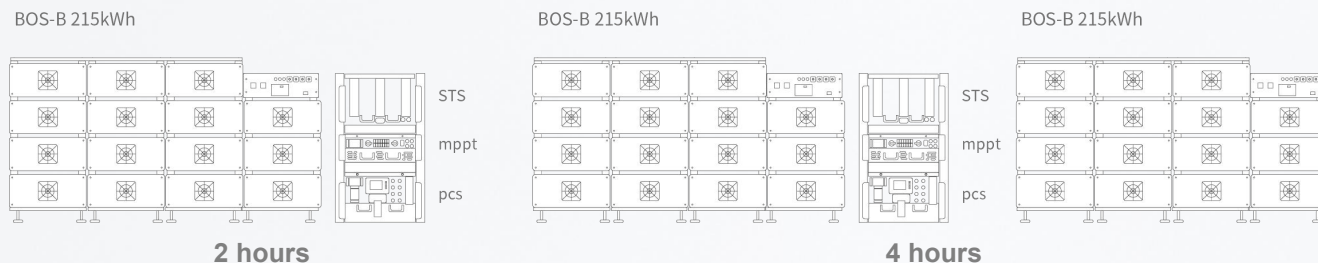
Grid Side Data	Rated AC Input/Output Active Power (kW)	300
	Rated AC Input/Output Current (A)	435
	Rated Input/Output Voltage(V)	220/230 (single phase) or 380/400 (three phase)
	Grid Connection Form	L1/N/PE or 3L/N/PE
	Rated Input/Output Grid Frequency	50Hz/60Hz
Load Side Data	Rated Output Active Power (kW)	300
	Rated Output Current (A)	435
	Rated Output Voltage(V)	220/230 (single phase) or 380/400 (three phase)
	Grid Connection Form	L1/N/PE or 3L/N/PE
	Rated Output Grid Frequency	50Hz/60Hz
GEN Side Data	Rated AC Input Active Power (kW)	300
	Rated AC Input Current (A)	435
	Rated Input Voltage(V)	220/230 (single phase) or 380/400 (three phase)
	Grid Connection Form	L1/N/PE or 3L/N/PE
	Rated Input Grid Frequency	50Hz/60Hz
General Data	Off grid switching time	<20ms
	Operating Temperature Range	-25°C to 60°C
	Permissible Ambient Humidity	0~95%
	Permissible Altitude	4000m
	Ingress Protection(IP) Rating	IP20
	Over Voltage category	OVC III
	Cabinet size (W*H*D) [mm]	550*440*315.5
	Weight[kg]	25
	Warranty	10
	Type Of Cooling	natural cooling
	Safety EMC/Standard	IEC/EN 61439-1/-2
Features	DC port/AC port	OT terminal
	Communication Interface	CAN/RS485

Versatile Small-Scale C&I ESS Solution



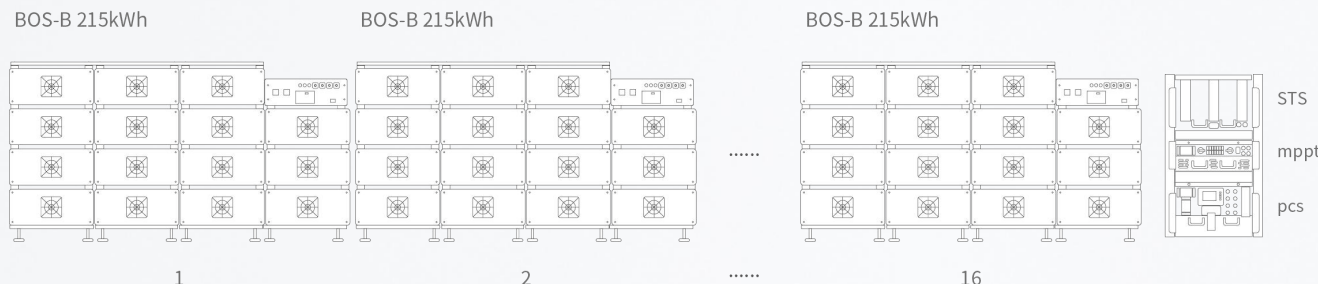
Deye BOS-B

Backup Power Duration Plan	2 hours	4 hours
Hybrid inverter power	100kW	100kW
Battery model	BOS-B 215kWh	BOS-B 215kWh × 2



Typical Application Scenarios

Maximum support for 16 racks of batteries in parallel



Maximum support for 10 inverters in AC parallel operation

