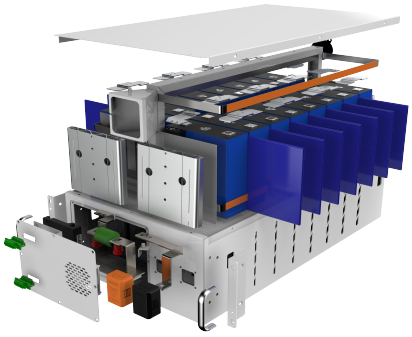


CABINET 50KW100KWh



51.2V280Ah Battery Module



Deye SUN-50K-SG01HP3 -EU-BM4

- Support photovoltaic access
- A variety of communication methods, support remote
- High energy density, small size, easy to install



High voltage control Box

- Modular design, flexible expansion, easy maintenance
- Support 100% unbalanced load, support 110% long-term overload
- The output power and charge and discharge power can be set, and the power grid has strong adaptability

Parameter	OHC— 50 KW/100KWh
Battery Date	
Capacity (KWh)	100
Battery type	LFP (LiFePO4)
Battery module capacity (KWh)	14.336
Module quantity (pcs)	7
Rate Voltage (V)	358.4
Max Charge/Discharge current (A)	140
PV Input Date	
Max input power(W)	65000
Max input voltage(V)	1000
MPPT voltage range(V)	150-850
Start-up Voltage (V)	180
Rated DC Input Voltage (V)	600
PV Input Current (A)	36+36+36+36
Max. PV Isc (A)	55+55+55+55
No.of MPP Trackers	4
No.of Strings per MPP Tracker	2
AC Output Date	
Rated AC Output and UPS Power (W)	50000
Max. AC Output Power (W)	55000
AC Output Rated Current (A)	75.8/72.5
Max. AC Output Rated Current (A)	83.4/79.7
Max. Three-phase Unbalanced Output Current	83.3
Max. Continuous AC Passthrough (A)	200
Peak Power (off grid)	1.5 time of rated power, 10 S
Output Frequency and Voltage	50/60Hz; 3L/N/PE 220/380, 230/400Vac
Total Harmonic Distortion (THD)	<3% (of nominal power)
Generator input/Smart load /AC couple current (A)	75.8 / 200 / 75.8
Grid Type	Three Phase
Power Factor	0.8 leading to 0.8 lagging
DC current injection	<0.5% In
Max. Efficiency	97.60%
Euro Efficiency	97.00%
MPPT Efficiency	99.90%
Certifications of Inverter	
Grid Regulation	VDE4105, IEC61727/62116, VDE0126, AS4777.2, CEI 0 21, EN50549-1, G98, G99, C10-11, UNE217002, NBR16149/NBR16150
Safety EMC / Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2
Protection	
PV Input Lightning Protection	Integrated
PV String Input Reverse Polarity Protection	Integrated
Insulation Resistor Detection	Integrated
Anti-islanding Protection	Integrated
Residual Current Monitoring Unit	Integrated
Output Over Current Protection	Integrated
Output Shorted Protection	Integrated
DC Surge protection	Integrated
AC Surge protection	Integrated
Cabinet Parameter	
Working Temperature ℃	-25~+55
Relative Humidity	0～95%
Max working altitude	3000
Cooling	Air conditioning cooling and heating
Human-computer interaction	LED, WLAN+App
BMS communication type	RS485, CAN
Communication protocol	CAN/RS485
Communication interface	CAN
Full cabinet weight	＜1,300
Full cabinet Size(W*H*D)	900x2250x1330mm
Topological structure	Non-isolated type
Waterproof class	IP55
Fire extinguishing system	Aerosols
Installation mode	Ground-type