

KAC50DP-BC100DM

50kW/100kWh outdoor All-in-one ESS cabinet

Highlights:

Safe&Reliable

- CATL LFP battery cell
- Double fire suppression system design
- 1+1 redundancy design

Simple&User-friendly

- Pre-installed in factory for easy installation on site
- Integrated BMS/EMS, suitable for various applications
- Effortless operation, could control

Economical&Efficient

- 100% DOD, improving ROI
- Save Capex, expanding as required
- Efficient and energy-saving HVAC design



Outdoor battery cabinet parameters

Technical parameters

Battery tyoe	LFP
Battery module capacity	5.12kWh
Number of modules	10*2
Total battery capacity	102.4kWh
Nominal voltage	512V
Operating voltage range	448V~576V
Charge/Discharge rate	Max. 0.5C
DoD	100%
Standards	IEC62619-2017;UN38.3;IEC61000-6-2/4

General parameters

Dimensions(WxDxH)	1100 x 1080 x2380 mm
Installation site	Outdoor
IP protection	IP54
Anti corrosion level	C4
Operation humidity	0%~95% (No condensing)
Operation temperature	-30°C~+50°C
Max. operation altitude	4000m (>3000m derating)
Communication port	Ethernet;CAN
Communication protocol	CAN;MODBUS TCP/IP
Cooling method	Air conditioner

Product specifications		KAC50DP
PV side		
Max. input voltage		1000V
MPPT voltage range		300V~800V
Max. current per MPPT		30A
Number of MPPT		3
Number of inputs per MPPT		2
Battery side		
Max. input voltage		750V
Min. input voltage		350V
DC voltage at nominal operation		500V~750V
Max. DC Current		50A*2
Number of DC inputs		2
Max. DC input power		50kW
AC side(On grid)		
Nominal AC output power		50kW
Max. AC output power		55kVA
Max. AC current		80A
Nominal AC voltage		400V
AC voltage range		320V~480V
Nominal grid frequency/frequency range		50/60Hz±5Hz
THDv		<3%(100% load)
PF at nominal power		1
Adjustable PF range		1(lagging)~1(leading)
AC side(Off grid)		
Nominal AC voltage		400V±3%
THDv		<3%(linear load)
Nominal grid frequency/frequency range		50/60Hz
Nominal AC output power		50kW
Max. AC output power		55kVA
Efficiency		
Max. efficiency		96.8%
Protection		
Reverse connection protection		Yes
DC switch		Yes
AC switch		Yes
Surge protection		DC Type II;AC Type II
Grid monitoring/ Earthing fault detection		Yes
Insulation monitoring		Yes
Over-temperature protection		Yes
General parameters		
Dimensions(WxDxH)		665*610*335mm
Weight		62KG
Topology		Transformerless
IP protection		IP65
Operation temperature range		-25~60°C(>50°C derating)
Operation humidity range(no condensing)		0~100%
Cooling method		Intelligent air cooling
Max. operation altitude		4000m(>3000m derating)
Display		LCD
Communication port		RS485/CAN
Communication protocol		Modbus RTU
Standards		IEC 62477 , IEC61000 , CE , GB/T

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