

# KAC50DP-BC100DME

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, cloud control

### Economical&Efficient

- Save Capex, expanding as required
- Efficient and energy-saving HVAC design



## Outdoor Battery Cabinet Parameters

### Technical parameters

Battery type	LFP
Battery module capacity	5.12kWh
Number of modules	10*2
Total battery capacity	102.4kWh
Nominal voltage	512V
Operating voltage range	448V~565V
Charge/Discharge rate	Max. 0.5C
DoD	90%

### General parameters

Dimensions(WxDxH)	1100 x 1100 x2380 mm
Weight	<1.5T
Installation site	Outdoor
IP protection	IP54
Anti corrosion level	C4
Operation humidity	5%~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
Standards	IEC62619-2017;UN38.3;IEC61000-6-2/4

Product Specifications	KAC50DP
<b>PV Side</b>	
Max. Input Voltage	1000V
MPPT Voltage Range	350V~800V
Max. Current per MPPT	36A
Number of MPPT	3
Number of Inputs Per MPPT	2
<b>Battery Side</b>	
Max. Input Voltage	750V
Min. Input Voltage	350V
DC Voltage at Nominal Operation	500V~750V
Max. DC Current	55A*2
Max. DC Input Power	55kW
Number of DC Inputs	2
<b>AC Side(On Grid)</b>	
Nominal AC Output Power	50kW
Max. AC Output Power	55kVA
Max. AC Current	80A
Nominal AC Voltage	400V
AC Voltage Range	340V~440V
Nominal Grid Frequency/Frequency Range	50/60Hz±5Hz
THDv	<3%(100% Load )
Adjustable PF Range	-1(Lagging)~1(Leading)
<b>AC Side(Off Grid)</b>	
Nominal AC Voltage	230/400V±3%; 3L+N+PE
THDv	<3%(Linear Load)
Nominal Grid Frequency/Frequency Range	50/60Hz
Nominal AC Output Power	50kW
Max. AC Output Power	55kVA
<b>Efficiency</b>	
Max. Efficiency	97.5%
<b>Protection</b>	
Reverse Connection Protection	Yes
DC Switch	Yes
Over-Temperature Protection	Yes
Grid Monitoring/ Earthing Fault Detection	Yes
Insulation Monitoring	Yes
DC/AC Surge Protection	DC Type II;AC Type III
<b>General Parameters</b>	
Dimensions(WxHxD)	650*715*325mm
Weight	75KG
Topology	Transformerless
IP Protection	IP65
Operation Temperature Range	-25~60°C(>45°C Derating )
Operation Humidity Range	0~100%(No Condensing)
Cooling Method	Intelligent Air Cooling
Max. Operation Altitude	3000m
Communication Port	RS485/CAN
Standards	IEC62477;IEC61000;CE;GB/T;IEC62109;IEC61683;IEC60068;IEC61727;IEC62116;EN50549;VDE4105;G99

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