

BluePulse Series

KAC50DP-BC100DE

Safe & Reliable

- ▶ CATL LFP Battery Cell
- ▶ Double Fire Suppression System Design
- ▶ 1+1 Redundancy Design

Economical & Efficient

- ▶ Save CapEx, Expanding as Required
- ▶ Efficient and Energy-saving HVAC Design

Simple & User-friendly

- ▶ Pre-installed in Factory for Easy Installation on site
- ▶ Integrated BMS/EMS, Suitable for Various Applications
- ▶ Effortless Operation, Cloud Control



Outdoor Battery Cabinet Parameters

Technical Parameters	BC100DE
Battery Type	LFP
Battery Module Capacity	5.12 kWh
Number of Modules	10*2
Total Battery Capacity	102.4 kWh
Nominal Voltage	512 V
Operating Voltage Range	456 V ~ 576 V
Charge / Discharge Rate	Max. 0.5C
DoD	90%

General Parameters	BC100DE
Dimensions (W x H x D)	1100 x 2380 x 1100 mm
Weight	1.45 T
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	3000 m
Communication Port	Ethernet; CAN
Communication Protocol	CAN; MODBUS TCP / IP
Cooling Method	Air Conditioner
Certificates	EN IEC 62040-1; EN 62477-1; IEC 62619; IEC 63056; GB/T 14710; ISTA 3E; EN IEC 61000-6-2; EN IEC 61000-6-4

Hybrid Inverter Parameters

Product Specifications		KAC50DP
PV Side		
Max. Input Voltage		1000 V
MPPT Voltage Range		350 V ~ 800 V
Max. Current per MPPT		36 A
Number of MPPT		3
Number of Inputs per MPPT		2
Battery Side		
Max. Input Voltage		750 V
Min. Input Voltage		350 V
DC Voltage at Nominal Operation		500 V ~ 750 V
Max. DC Current		55 A*2
Max. DC Input Power		55 kW
Number of DC Inputs		2
AC Side (On Grid)		
Nominal AC Output Power		50 kW
Max. AC Output Power		55 kVA
Max. AC Current		80 A
Nominal AC Voltage		400 V
AC Voltage Range		340 V ~ 440 V
Nominal Grid Frequency / Frequency Range		50 / 60 Hz $\pm$ 5Hz
THDi		< 3% (100% Load)
Adjustable PF Range		-1 (Lagging) ~ 1 (Leading)
AC Side (Off Grid)¹⁾		
Nominal AC Voltage		400 V
THDv		< 3% (Linear Load)
Nominal Grid Frequency / Frequency Range		50 / 60 Hz
Nominal AC Output Power		50 kW
Max. AC Output Power		55 kVA
Efficiency		
Max. Efficiency		97.5%
Protection		
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
General Parameters		
Dimensions (W x H x D)		650 x 715 x 325 mm
Weight		76 kg
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		3000 m
Communication Port		RS-485 / CAN
Certificates	EN IEC 62109-1/2; IEC EN 62477-1; EN IEC 61000-6-2/4; EN IEC 61000-3-11; EN 61000-3-12; IEC 60068-2-1/2/14/30/52; IEC 61683; IEC 61727; IEC 62116; IEC 60529; C10/11; CEI 0-21; EN 50549-1; DIN VDE 0126-1-1; VDE-AR-N 4105; UNE 217001	

1) For off-grid application, STS100D or STS250D automatic switching cabinet is needed.