

BluePulse Series NEW

KAC50DP-BC100DE / KAC50DP-BC107DE / KAC50DP(2)-BC197DE¹⁾

Safe & Reliable

- ▶ CATL LFP Battery Cell
- ▶ Double Fire Suppression System 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	BC107DE	BC197DE
Battery Type	LFP		
Manufacturer	CATL		
Cell Type	100 Ah	280 Ah	280 Ah
Battery Module Capacity	5.12 kWh	17.92 kWh	17.92 kWh
Number of Modules	20	6	11
Total Battery Capacity	102.4 kWh	107.52 kWh	197.12 kWh
Nominal Voltage	512 V	384 V	704 V
Operating Voltage Range	456 ~ 576 V	342 ~ 432 V	627 ~ 792 V
Charge / Discharge Rate	Max. 0.5 C		
DoD	90%		
General Parameters			
Dimensions (W x H x D)	1100 x 2380 x 1100 mm	1050 x 2000 x 1366 mm	1300 x 2380 x 1200 mm
Weight	< 1.5 T	< 1.45 T	< 2.5 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; TCP		
Cooling Method	Air Conditioner		
Certificates	UN38.3; MSDS; IEC 62040; IEC 62477; IEC 62619; IEC 63056; IEC 61000-6-2/4		

1) The BC197DE battery cabinet supports both a 0.25 C configuration with a single KAC50DP and a 0.5 C configuration with two KAC50DP units.

Hybrid Inverter Parameters

Product Specifications		KAC50DP
PV Side		
Max. Input Voltage		1000 V
MPPT Voltage Range		350 ~ 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 ~ 750 V
Max. DC Current		55 A x 2
Max. DC Input Power		55 kW ¹⁾
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 ~ 440 V
Nominal Grid Frequency / Frequency Range		50 Hz / 60 Hz (±5 Hz)
THDi		< 3% (100% Load)
Adjustable PF Range		-1 (Lagging) ~ 1 (Leading)
AC Side (Off Grid)²⁾		
Nominal AC Voltage		400 V
THDv		< 3% (Linear Load)
Nominal Grid Frequency / Frequency Range		50 Hz / 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) When KAC50DP is used with BC107DE, Max. charge and discharge power is 40 kW.

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