

# BluePulse Series **NEW**

KAC50DP-BC100DE / KAC50DP-BC107DE / KAC50DP(2)-BC197DE<sup>1)</sup>

## 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
<b>PV Side</b>	
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
<b>Battery Side</b>	
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 <sup>1)</sup>
Number of DC Inputs	2
<b>AC Side (On Grid)</b>	
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)
<b>AC Side (Off Grid)<sup>2)</sup></b>	
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
<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 (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; MEA; PEA

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.