

BluePulse Series NEW

KAC50DP-BC100DE / KAC50DP-BC197DE



Safe &
Reliable



Economical &
Efficient



Simple &
User-friendly

subsystem	KAC50DP	BC100DE	BC197DE
50kW/100kWh	1	1	
50kW/200kWh	1	2	
50kW/197kWh	1		1
100kW/197kWh	2		1



* The maximum parallel number of PCS is 20.



Outdoor Battery Cabinet Parameters

Technical Parameters	BC100DE	BC197DE
Battery Type	LFP	
Manufacturer	CATL	
Cell Type	100ah	280ah
Battery Module Capacity	5.12 kWh	17.92 kWh
Number of Modules	20	11
Total Battery Capacity	102.4 kWh	197 kWh
Nominal Voltage	512 V	704 V
Operating Voltage Range	456 V ~ 576 V	616 V ~ 792 V
Charge / Discharge Rate	0.5C	
DoD	90%	
General Parameters		
Dimensions (W x H x D)	1100 x 2380 x 1100 mm	1300 x 2380 x 1200 mm
Weight	< 1.5 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	4000 m (> 3000 m Derating)	
Communication Port	Ethernet; CAN	
Communication Protocol	CAN; TCP	
Cooling Method	Air Conditioner	
Certificates	IEC 62619-2017; UN 38.3; IEC 61000-6-2/4	

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
THDv		< 3% (100% Load)
Adjustable PF Range		-1 (Lagging) ~ 1 (Leading)
AC Side (Off Grid)¹⁾		
Nominal AC Voltage		230 / 400 V $\pm$ 3%; 3L+N+PE
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(WxHxD)		650 x 715 x 325 mm
Weight		75 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		IEC 62477; IEC 61000; CE;GB/T; IEC 62109; IEC 61683; IEC 60068; IEC 61727; IEC 62116; EN 50549; VDE 4105; G 99

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