

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	

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 ±5Hz
THDv	< 3% (100% Load)
Adjustable PF Range	-1 (Lagging) ~ 1 (Leading)
AC Side (Off Grid) [1]	
Nominal AC Voltage	230 / 400 V ±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(WxDxH)	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
Standards	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.