

BluePulse Series **NEW**

KAC50DP2 / BC197DE2

Versatile Application

- ▶ Ideal for factories, hotels, and farms with DC / AC-coupled solar-storage
- ▶ No external switching device is required, on/off-grid switching time about 10ms, support direct output backup load

Safe & Reliable

- ▶ 280ah large capacity cell, higher energy density
- ▶ Carbon monoxide detection, Sound and light alarm, Exhaust fan, Explosion vent window, Inlet valve, Fire water injection port

Smart Energy

- ▶ Supports self-consumption, peak shifting, time-of-use, and battery backup
- ▶ Integrated self-developed BMS / EMS for flexibility

High Performance

- ▶ Small size, small footprint
- ▶ Long-lasting battery cycle life

Easy Operation

- ▶ Compact design saves space
- ▶ Cloud control with 24 / 7 monitoring



Outdoor Battery Cabinet Parameters

| Technical Parameters | BC197DE2 |
|-------------------------|---|
| Battery Type | LFP |
| Battery Module Capacity | 17.92 kWh |
| Number of Modules | 11 |
| Total Battery Capacity | 197.12 kWh |
| Nominal Voltage | 704 V |
| Operating Voltage Range | 627 ~ 792 V |
| Charge / Discharge Rate | 0.5 C |
| DoD | 90% |
| General Parameters | |
| Dimensions (W x H x D) | 1300 x 2386 x 1442 mm |
| Weight | < 2.3 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 |

Hybrid Inverter Parameters

| Product Specifications | KAC50DP2 |
|--|--|
| PV Side | |
| MPPT Voltage Range | 250 ~ 950 Vdc (Max. 1000 Vdc) |
| MPPT Rated Voltage | 720 Vdc |
| MPPT Rated Voltage (Full Load) | 550 ~ 800 V |
| Max. PV Power | 100 kWp |
| Number of MPPT / Strings per MPPT | 4 / 2 |
| Max. Current per MPPT | 45 A |
| Battery Side | |
| Battery Voltage Range | 200 ~ 950 Vdc |
| Battery Rated Voltage Range | 250 ~ 800 Vdc |
| Max. DC Current | 80 Adc x 2 |
| Max. DC Power | 55 kW |
| Number of DC Input | 2 |
| AC Side (On Grid) | |
| Nominal AC Output Power | 50 kW |
| Max. AC Output Power | 55 kVA |
| Max. AC Input Power (Single-phase) | 37.5 kW |
| Rated AC Current | 72.5 A |
| Max. AC Current | 163 A |
| AC Rated Voltage / Voltage Range | 230 / 400 Vac; 220 / 380 Vac; 3L+PE+N; -15% ~ +10% |
| Nominal Grid Frequency / Frequency Range | 50 Hz / 60 Hz (±5 Hz) |
| THDi | < 3% (100% Load) |
| Adjustable PF Range | -0.8 (Lagging) ~ 0.8 (Leading) |
| Backup Output | |
| Nominal AC Voltage | 230 / 400 V; 220 / 380 Vac; 3L+PE+N |
| THDv | < 3% (Rated Power) |
| Nominal Grid Frequency / Frequency Range | 50 Hz / 60 Hz |
| Nominal AC Output Power | 50 kW |
| Max. AC Output Power (Single-phase) | 25 kW |
| Max. Output Current | 110 A |
| Genset Input | |
| Max. Input Current | 110 A |
| Efficiency | |
| Max. Efficiency | 97.5% |
| Protection | |
| Reverse DC Connection Protection | Yes |
| Anti-Islanding Protection | Yes |
| Over-Temperature Protection | Yes |
| Grid Monitoring / Earthing Fault Detection | Yes |
| Insulation Monitorin | Yes |
| DC / AC Surge Protection | DC Type II; AC Type II |
| AFCI | Optional |
| General Parameters | |
| Dimensions (W x H x D) | 635 x 950 x 315 mm |
| Weight | > 80 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 | 4000 m (> 3000 m Derating) |
| Communication Port | RS-485 / CAN |