

# 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                                                                                                        |
|------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| <b>PV Side</b>                           |                                                                                                                |
| 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                                                                                                              |
| <b>Battery Side</b>                      |                                                                                                                |
| 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                                                                                                              |
| <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 V ~ 440 V                                                                                                  |
| Nominal Grid Frequency/Frequency Range   | 50 / 60 Hz $\pm$ 5Hz                                                                                           |
| THDv                                     | < 3% (100% Load)                                                                                               |
| Adjustable PF Range                      | -1 (Lagging) ~ 1 (Leading)                                                                                     |
| <b>AC Side (Off Grid)<sup>1)</sup></b>   |                                                                                                                |
| 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                                                                                                         |
| <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(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.