

BluePulse Series

KAC80DP2 / KAC100DP2 / KAC110DP2 / KAC125DP2

Extreme Safety & Reliability

- ▶ Tier 1 battery cell brand ensure high quality
- ▶ 4+3 fire safety design-avoids fire risks
- ▶ Integrated intelligence temperature control

Versatile Adaptability

- ▶ Multi-scenario adaptation & Flexible solution configuration
- ▶ Scalable up to 10.4 MWh
- ▶ Floor space reduced by 25%

Intelligent & User-friendly

- ▶ 3S (PCS, BMS, EMS) full-stack self-developed
- ▶ Integrated monitoring and O&M through KSTAR Sync
- ▶ VPP ready with KSTAR Sync Cloud



Hybrid Inverter Parameters

| Product Specifications | KAC80DP2 | KAC100DP2 | KAC110DP2 | KAC125DP2 |
|-------------------------------------|---------------------------|-------------|-------------|-------------|
| PV Side | | | | |
| MPPT Voltage Range | 250 ~ 950 V (Max. 1000 V) | | | |
| MPPT Rated Voltage | 720 V | | | |
| MPPT Rated Voltage (Full Load) | 450 ~ 800 V | 550 ~ 800 V | 600 ~ 800 V | 700 ~ 800 V |
| Max. PV Power | 160 kWp | 200 kWp | 220 kWp | 250 kWp |
| Startup Voltage | 230 V | | | |
| Number of MPPT / Strings per MPPT | 8 / 2 | | | |
| Max. Input Current per MPPT | 45 A | | | |
| Max. Short-Circuit Current per MPPT | 60 A | | | |
| Max input PV Power | 160 kW | 200 kW | 220 kW | 250 kW |
| Battery Side | | | | |
| Battery Voltage Range | 200 ~ 950 V | | | |
| Battery Rated Voltage Range | 250 ~ 850 V | | | |
| Max. DC Current | 160 A (80 A x 2) | | | |
| Max. DC Power | 88 kW | 110 kW | 110 kW | 125 kW |
| Number of DC Inputs | 2 | | | |

Hybrid Inverter Parameters

| Product Specifications | KAC80DP2 | KAC100DP2 | KAC110DP2 | KAC125DP2 |
|--|--|-----------|-----------|-----------|
| AC Side (On Grid) | | | | |
| Nominal AC Output Power | 80 kW | 100 kW | 110 kW | 125 kW |
| Max. AC Output Power | 88 kVA | 110 kVA | 121 kVA | 125 kVA |
| Rated AC Output Current | 116 A | 144 A | 159 A | 181 A |
| Max.AC Input Current | 240 A | 250 A | 250 A | 250 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 inductive(under-excited) to 0.8 capacitive(over-excited) | | | |
| 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 | 80 kW | 100 kW | 110 kW | 125 kW |
| Max. AC Output Power (Single-phase) | 50 kW | | | |
| Max. Output Current | 220 A | | | |
| Genset Input | | | | |
| Max. Input Current | 220 A | | | |
| Efficiency | | | | |
| Max. Efficiency | 98% | | | |
| Protection | | | | |
| Reverse DC Connection Protection | Yes | | | |
| Anti-Islanding Protection | Yes | | | |
| Over-Temperature Protection | Yes | | | |
| Grid Monitoring / Earthing Fault Detection | Yes | | | |
| Insulation Monitoring | Yes | | | |
| DC / AC Surge Protection | DC Type II; AC Type II | | | |
| Protective Class | Class I | | | |
| Active Anti-islanding Method | Power Variation | | | |
| Overvoltage Category | DC II; AC III | | | |
| AFCI | Optional | | | |
| General Parameters | | | | |
| Dimensions (W x H x D) | 1120 x 760 x 365 mm | | | |
| Weight | 135 kg | | | |
| Topology | Non-isolated | | | |
| IP Protection | IP66 | | | |
| 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 | | | |
| Warranty | 10 Years | | | |