

BluePulse Series **NEW**

KAC80DP2 / KAC100DP2 / KAC110DP2 / KAC125DP2
BC125DE2 ~ BC233DE2

Versatile Applications

- Supports both DC- and AC-coupled solar + storage solutions
- Integrated STS with seamless on/off-grid switching (≤ 10 ms)
- Scalable system: up to 20 PCS units in on-grid mode, and 6 PCS in off-grid mode

Safe & Reliable

- 280Ah high-capacity cells for enhanced energy density
- Comprehensive safety design: CO detection, audible & visual alarms, exhaust fan, explosion vent, air inlet valve, and firefighting water inlet
- Protective coverings ensure full electrical isolation and operational safety

Intelligent & User-Friendly

- Integrated monitoring and O&M via KSTAR Sync
- Fully integrated self-developed BMS, EMS, and PCS for maximum flexibility
- Compatible with third-party EMS and VPP platforms

High Performance

- Up to 200% DC/AC ratio for increased output and charging capability
- Supports direct diesel generator (DG) connection without external ATS
- Long battery lifespan exceeding 8,000 cycles



Outdoor Battery Cabinet Parameters

Technical Parameters	BC125DE2	BC143DE2	BC161DE2	BC179DE2	BC197DE2	BC215DE2	BC233DE2
Battery Type	LFP						
Battery Module Capacity	17.92 kWh						
Rated Capacity	280 Ah						
Number of Modules	7	8	9	10	11	12	13
Rated Capacity	125.44 kWh	143.36 kWh	161.28 kWh	179.2 kWh	197.12 kWh	215.04 kWh	232.96 kWh
Usable Capacity	122.93 kWh	140.94 kWh	158.05 kWh	175.61 kWh	193.18 kWh	210.74 kWh	228.30 kWh
Nominal Voltage	448 V	512 V	576 V	640 V	704 V	768 V	832 V
Operating Voltage Range	399 ~ 504 V	456 ~ 576 V	513 ~ 648 V	570 ~ 720 V	627 ~ 792 V	684 ~ 864 V	741 ~ 936 V
Charge / Discharge Rate	0.5 C						
Max. Charging Current	140 A						
Max. Discharging Current	140 A						
DoD	Default 90%, Max. 98%						
General Parameters							
Dimensions (W x H x D)	1300 x 2386 x 1442 mm						
Weight	1845 kg	1990 kg	2115 kg	2250 kg	2385 kg	2560 kg	2655 kg
Installation Site	Outdoor						
IP Protection	IP54						
Pollution Degree	PD3 (PD2 inside)						
Over voltage category	OVC II						
Protective Class	I						
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						
Country of Manufacture	China						
Warranty	10 Years						
Certificates	UN38.3; MSDS; IEC 62040; IEC 62477; IEC 62619; IEC 63056; IEC 61000-6-2/4						

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			