

BluePulse Series **NEW**

KAC125DP2-BC220DE2A / BC240DE2A / BC260DE2A

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

- ▶ 314ah 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



Technical Parameters	BC220DE2A	BC240DE2A	BC260DE2A
Battery Type	LiFe (LiFePO4)		
Battery Module Capacity	20.09 kWh		
Number of Modules	11	12	13
Total Battery Capacity	221.05 kWh	241.15 kWh	261.24 kWh
Nominal Voltage	704 V	768 V	832 V
Operating Voltage Range	627 ~ 792 V	684 ~ 864 V	741 ~ 936 V
Charge / Discharge Rate	0.5 C		
Standard Charging / Discharging Current	157 A / 157 A		
DoD	90%		
General Parameters			
Dimensions (W x H x D)	1324 x 1440 x 2415 mm		
Weight	< 2.39 T	< 2.53 T	< 2.66 T
Installation Site	Outdoor		
IP Protection	IP54		
Anti Corrosion Level	C4		
Operation Humidity	0 ~ 95% (No Condensing)		
Operation Temperature	-30°C ~ +50°C		
Max. Operation Altitude	≤ 3000 (> 2000m Derating)		
Communication Port	Ethernet; CAN		
Communication Protocol	CAN; TCP		
Cooling Method	Intelligent Air Cooling		
Warranty	5 Year Product Waarranty; 10 Year Performance Warranty		
Certificates	UN38.3; MSDS; IEC 62040; IEC 62477; IEC 62619; IEC 63056; IEC 61000-6-2/4		

Hybrid Inverter Parameters

Product Specifications	KAC125DP2
PV Side	
MPPT Voltage Range	250 ~ 950 V (Max. 1000 V)
MPPT Rated Voltage	720 V
MPPT Rated Voltage (Full Load)	700 ~ 800 V
Max. PV Power	250 kWp
Number of MPPT / Strings per MPPT	8 / 2
Max. Current per MPPT	45 A
Battery Side	
Battery Voltage Range	200 ~ 950 V
Battery Rated Voltage Range	250 ~ 800 V
Max. DC Current	160 A (80 A x 2)
Max. DC Power	125 kW
Number of DC Inputs	2
AC Side (On Grid)	
Nominal AC Output Power	125 kW
Max. AC Output Power	125 kVA
Rated AC Current	181 A
Max. AC Current	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 (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	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
AFCI	Optional
General Parameters	
Dimensions (W x H x D)	1120 x 760 x 365 mm
Weight	> 95 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