

# BluePulse Series NEW

KAC80DP2 / KAC100DP2 / KAC110DP2 / 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
Charging / Discharge Rate	0.5 C		
Standard Charging / Discharging Current	157 A / 157 A		
DoD	90%		
<b>General Parameters</b>			
Dimensions (W x H x D)	1324 x 2415 x 1440 mm		
Weight	< 2.45 T	< 2.60 T	< 2.71 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 (>2000m Derating)		
Communication Port	Ethernet ; CAN ; RS485		
Communication Protocol	CAN; MODBUS TCP / IP		
Cooling Method	Air Conditioner		
Warranty	5 Year Product Warranty; 10 Year Performance Warranty		
Certification	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
<b>PV Side</b>				
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
Number of MPPT / Strings per MPPT	8 / 2			
Max. Current per MPPT	45 A			
<b>Battery Side</b>				
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	121 kW	125 kW
Number of DC Inputs	2			
<b>AC Side (On Grid)</b>				
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 Current	116 A	144 A	159 A	181 A
Max. AC Current	227 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)			
<b>Backup Output</b>				
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			
<b>Genset Input</b>				
Max. Input Current	220 A			
<b>Efficiency</b>				
Max. Efficiency	98%			
<b>Protection</b>				
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			
<b>General Parameters</b>				
Dimensions (W x H x D)	1120 x 760 x 365 mm			
Weight	135 kg			
Topology	Transformerless			
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			