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%	
General Parameters			
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
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
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 ~ 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			
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 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)			
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			
AFCI	Optional			
General Parameters				
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℃ (> 45℃ 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			

BluePulse Series

KAC100DH / KAC125DH - BC215DE2 / BC233DE2

Safe & Reliable

- CATL LFP Battery Cell
- Double Fire Suppression System Design

Economical & Efficient

- Save CapEx, Expanding as Required
- Efficient and Energy-saving HVAC Design

Simple & User-friendly

- Pre-installed in Factory for Easy Installation on site
- Integrated BMS / EMS, Suitable for Various Applications
- Effortless Operation, Cloud Control



Outdoor Battery Cabinet Parameters

Technical Parameters	BC215DE2	BC233DE2
Battery Type	LFP	
Battery Module Capacity	17.92 kWh	
Cell Type	280 Ah	
Number of Modules	12	13
Total Battery Capacity	215.04 kWh	232.96 kWh
Nominal Voltage	768 V	832 V
Operating Voltage Range	684 ~ 864 V	741 ~ 936 V
Charge / Discharge Rate	0.5 C	
DoD	90%	
General Parameters		
Dimensions (W x H x D)	1300 x 2380 x 1445 mm	
Weight	< 2.5 T	< 2.6 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	
Certification	UL 9540A; UN38.3; MSDS; IEC 62040; IEC 62477; IEC 62619; IEC 63056; IEC 61000-6-2/4	

Energy Storage Inverter Parameters

Product Specifications	KAC100DH	KAC125DH
Battery Side		
Max. Input Voltage	1500 V	
Min. Input Voltage	600 V	
DC Voltage at Nominal Operation	650 ~ 1400 V	
Max. DC Current	187 A	233.8 A
Max. DC Input Power	112 kW	140 kW
Number of DC Inputs	1	
AC Side (On Grid)		
Nominal AC Output Power	100 kW	125 kW
Max. AC Output Power	110 kW	137.5 kW
Max. AC Current	159 A	199 A
Nominal AC Voltage	400 Vac, 3P + PE (N)	
AC Voltage Range	400 Vac, (-15% + 10%)	
Nominal Grid Frequency / Frequency Range	50 Hz / 60 Hz (±5 Hz)	
THDi	≤ 3% (Rated Power)	
Adjustable PF Range	> 0.99	
AC Side (Off Grid) [1)]		
Nominal AC Voltage	400 Vac, 3P + PE (N)	
THDv	< 1.5% (Resistive Load)	
Nominal Grid Frequency / Frequency Range	50 Hz / 60 Hz (±5 Hz)	
Nominal AC Output Power	100 kW	125 kW
Max. AC Output Power	110 kVA	137.5 kVA
Efficiency		
Max. Efficiency	> 98%	
Protection		
Reverse Connection Protection	Yes	
DC Switch	Yes	
Over-Temperature Protection	Yes	
Insulation Monitoring	Yes	
DC / AC Surge Protection	Type II (DC side); Type II (AC side)	
General Parameters		
Dimensions (W x H x D)	650 x 952 x 310 mm	
Installation	Wall Mounted / Plug in	
Weight	93 kg	
Topology	Transformerless	
IP Protection	IP66	
Anti Corrosion Leve	C4	
Operation Temperature Range	-30℃ ~ 60℃ (> 45℃ 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	
Certificates	EN 50549-1:2019; EN 50549-2:2019; IEC 61000-6-2/4; IEC 62477-1: 2012; NC RFG; C10/C11; GB/T 34120; GB/T 34133:2023	

1) For off-grid application, STS250D automatic switching cabinet is needed.