

BluePulse Series

NEW

KAC20DP2 / KAC25DP2 / KAC29DP2 / KAC30DP2 / KAC40DP2 / KAC50DP2
 BC70DE / BC89DE / BC107DE

Versatile Application

- ▶ Ideal for factories, hotels, and farms with DC-coupled solar-storage
- ▶ On/off-grid switching < 20 ms with genset support

Safe & Reliable

- ▶ CATL cells ensure safety and long life
- ▶ Fire safety: alarms, valves, smoke/CO sensors, UL9540A certified (Cell, Module)

Smart Energy

- ▶ Supports self-consumption, peak shifting, time-of-use, and battery backup
- ▶ Integrated BMS / EMS for flexibility

High Performance

- ▶ Smart air-cooling for efficiency
- ▶ Long-lasting battery cycle life

Easy Operation

- ▶ Compact design saves space
- ▶ Cloud control with 24 / 7 monitoring



Technical Parameters	BC70DE		BC89DE	BC107DE
Battery Type	LFP			
Battery Module Capacity	17.92 kWh			
Cell Type	280 Ah			
Number of Modules	4	5	6	
Total Battery Capacity	71.68 kWh	89.6 kWh	107.52 kWh	
Nominal Voltage	256 V	320 V	384 V	
Operating Voltage Range	228 ~ 288 V	285 ~ 360 V	342 ~ 432 V	
Charge / Discharge Rate	Max. 0.5 C			
DoD	90%			
General Parameters				
Dimensions (W x H x D)	1050 x 2000 x 1366 mm			
Weight	< 1.2 T	< 1.3 T	< 1.5 T	
Installation Site	Outdoor			
IP Protection	IP54			
Anti Corrosion Level	C4			
Operation Humidity	5% ~ 95% (No Condensing)			
Operation Ttemperature	-30°C ~ +50°C			
Max. Operation Altitude	≤ 3000 m			
Communication Port	Ethernet; CAN			
Communication Protocol	CAN; MODBUS TCP / IP			
Cooling Method	Air Conditioner			
Certification	UN38.3; MSDS; IEC 62040; IEC 62477; IEC 62619; IEC 63056; IEC 61000-6-2/4			

Hybrid Inverter Parameters

Product Specifications	KAC20DP2	KAC25DP2	KAC29DP2	KAC30DP2	KAC40DP2	KAC50DP2
PV Side						
MPPT Voltage Range	250 ~ 950 Vdc (Max. 1000 Vdc)					
MPPT Rated Voltage	720 Vdc					
MPPT Rated Voltage (Full Load)	300 ~ 800 V	350 ~ 800 V	400 ~ 800 V		500 ~ 800 V	550 ~ 800 V
Max. PV Power	40 kWp	50 kWp	60 kWp	60 kWp	80 kWp	100 kWp
Number of MPPT / Strings per MPPT	4 / 2					
Max. Current per MPPT	45 A					
Battery Side						
Battery Voltage Range	250 ~ 900 Vdc					
Battery Rated Voltage Range	250 ~ 800 Vdc					
Max. DC Current	40 Adc x 2	50 Adc x 2	60 Adc x 2		80 Adc x 2	
Max. DC Power	22 kW	27.5 kW	33 kW	33 kW	44 kW	55 kW
Number of DC Inputs	2					
AC Side (On Grid)						
Nominal AC Output Power	20 kW	25 kW	29.9 kW	30 kW	40 kW	50 kW
Max. AC Output Power	27.5 kVA	27.5 kVA	29.9 kVA	33 kVA	44 kVA	55 kVA
Max. AC Input Power (Single-phase)	20 kW	25 kW	25 kW	25 kW	27.5 kW	37.5 kW
Rated AC Current	28.9 A	36 A	43 A	43 A	58 A	72 A
Max. AC Current	87 A	110 A	110 A	110 A	120 A	163 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	20 kW	25 kW	29.9 kW	30 kW	40 kW	50 kW
Max. AC Output Power (Single-phase)	20 kW	25 kW	25 kW	25 kW	25 kW	25 kW
Max. Output Current	87 A	110 A	110 A	110 A	110 A	110 A
Genset Input						
Max. Input Current	87 A	110 A	110 A	110 A	110 A	110 A
Efficiency						
Max. Efficiency	97.5%					
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)	635 x 950 x 315 mm					
Weight	> 80 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					