

Technické parametry:

Specifikace produktu	KAC20DP2-BC107DE2	KAC25DP2-BC107DE2	KAC29DP2-BC107DE2	KAC30DP2-BC107DE2	KAC40DP2-BC107DE2	KAC49DP2-BC107DE2	KAC50DP2-BC107DE2
Parametry baterie							
Kapacita baterie	107,52 kWh						
Strana FV							
Rozsah napětí MPPT	250 ~ 950 V DC (max. 1000 V DC)						
Jmenovité napětí MPPT	720 V DC						
Jmenovité napětí MPPT (plné zatížení)	300 ~ 800 V	350 ~ 800 V	400 ~ 800 V	400 ~ 800 V	500 ~ 800 V	550 ~ 800 V	550 ~ 800 V
Max. výkon FV	40 kWp	50 kWp	60 kWp	60 kWp	80 kWp	100 kWp	100 kWp
Počet MPPT / řetězců na MPPT	4 / 2						
Max. proud na MPPT	45 A						
AC strana (v síti)							
Jmenovitý AC výstupní výkon	20 kW	25 kW	29,9 kW	30 kW	40 kW	49,9 kW	50 kW
Maximální AC výstupní výkon	27,5 kVA	27,5 kVA	29.9 kVA	33 kVA	44 kVA	49,9 kVA	55 kVA
Max. AC vstupní výkon (jednofázový)	20 kW	25 kW	25 kW	25 kW	27,5 kW	37,5 kW	37,5 kW
Jmenovitý AC proud	28,9 A	36 A	43 A	43 A	58 A	72 A	72 A
Maximální AC proud	87 A 110	A 110	A 110	A 120	A 163	A 163	A
AC Jmenovité napětí / Rozsah napětí	230 / 400 Vac; 220 / 380 Vac; 3L+PE+N; -15% ~ +10%						
Jmenovitá frekvence sítě / rozsah frekvence							
Záložní výstup	50 Hz / 60 Hz (±5 Hz)						
Jmenovité napětí AC	230 / 400 V; 220 / 380 Vac; 3L+PE+N						
Jmenovitá frekvence sítě / rozsah frekvence	50 Hz / 60 Hz						
Jmenovitý AC výstupní výkon	20 kW	25 kW	29,9 kW	30 kW	40 kW	49,9 kW	50 kW
Max. výstupní výkon AC (jednofázově)	20 kW	25 kW	25 kW	25 kW	25 kW	25 kW	25 kW
Max. výstupní proud	87 A	110 A	110 A	110 A	110 A	110 A	110 A
Vstup generátoru							
Max. vstupní proud	87 A	110 A	110 A	110 A	110 A	110 A	110 A
Účinnost							
Maximální účinnost	97,5 %						
Ochrana							
AFCI	Volitelné						
Obecné parametry							
Rozměry (Š × V × H)	Střídač: 635 x 950 x 315 mm Akumulátorová skříň: 1050 x 2085 x 1371 mm						
Hmotnost	Střídač: ~80 kg Akumulátorová skříň: ~1500 kg						
Stupeň krytí IP	Střídač: IP65 Akumulátorová skříň: IP54						
Certifikace*							
Střídač	IEC EN 62109-1/2; IEC EN 62477-1; EN IEC 61000-6/3; EN IEC 62920; IEC 61727; IEC 62116; IEC 60068-2; IEC 61683; EN50549-1/2/10; RfG/NC RfG/PTPIREE; CEI-021/CEI-016; C10/11						
Skříň baterie	UN38.3; MSDS; IEC 62040; IEC 62477; IEC 62619; IEC 63056; IEC 61000-6-2/4; UL9540A						

Řada BluePulse
KAC50DP2-BC107DE2

Třífázový kabinet 107 kWh



Specifications:

Product Specifications	KAC20DP2- KAC25DP2-BC107DE2	KAC29DP2-B C107DE2	KAC30DP2-B C107DE2	KAC40DP2-B C107DE2	KAC49DP2-B C107DE2	KAC50DP2-B C107DE2
Battery Parameter	BC107DE2					
Battery Capacity	107.52 kWh					
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	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					
AC Side (On Grid)						
Nominal AC Output Power	20 kW	25 kW	29.9 kW	30 kW	40 kW	49.9 kW
Max. AC Output Power	27.5 kVA	27.5 kVA	29.9 kVA	33 kVA	44 kVA	49.9 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 163
AC Rated Voltage / Voltage Range	230 / 400 Vac; 220 / 380 Vac; 3L+PE+N; ~ +10%					
Nominal Grid Frequency / Frequency Range	50 Hz / 60 Hz (± 5 Hz) Backup Output Nominal AC Voltage -15%					
	230 / 400 V; 220 / 380 Vac; 3L+PE+N					
Nominal Grid Frequency / Frequency Range	50 Hz / 60 Hz					
Nominal AC Output Power	20 kW	25 kW	29.9 kW	30 kW	40 kW	49.9 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						
AFCI	Optional					
General Parameters						
Dimensions (W x H x D)	Inverter: 635 x 950 x 315 mm Battery Cabinet: 1050 x 2085 x 1371 mm					
Weight	Inverter: ~80 kgBattery Cabinet: < 1500 kg					
IP Protection	Inverter: IP65 Battery Cabinet: IP54					
Certification*						
Inverter	IEC EN 62109-1/2; IEC EN 62477-1; EN IEC 61000-6/3; EN IEC 62920; IEC 61727; IEC 62116; IEC 60068-2; IEC 61683; EN50549-1/2/10; RfG/NC RfG/PTPIREE; CEI-021/CEI-016; C10/11					
Battery Cabinet	UN38.3; MSDS; IEC 62040; IEC 62477; IEC 62619; IEC 63056; IEC 61000-6-2/4; UL9540A					

BluePulse Series

KAC50DP2-BC107DE2

Three Phase 107kWh Cabinet



BluePulse Series

KAC50DP2-BC107DE2

Three Phase 50kW Hybrid Inverter
107kWh Cabinet

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Powered by CATL 10 Years Performance Warranty
- 

280ah large capacity cell, higher energy density
- 

Backup / Genset Input Integrated
- 

Integrated self-developed BMS / EMS for flexibility
- 

Fire Saffety with Alarms, Valves, Smoke / CO sensors, UL 9540A Certified
- 

Small size, small footprint Long-lasting battery cycle life
- 

Off-grid Expandable up to 6 ParallelOn-grid Expandable up to 20 Parallel
- 

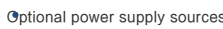
Compact design saves space Cloud control with 24/7 monitoring

Functions:

KSTAR BluePulse PV+ESS All-in-One system serves as a multiple energy source gateway.

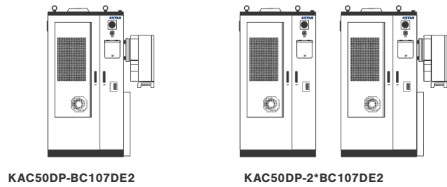
•It efficiently controls and distributes power from various sources, including mains electricity, solar photovoltaics, and diesel generators. The system supports multiple grid-connected modes such as self-consumption, time-of-use, and peak shaving, tailored to diverse customer needs.

• In off-grid scenarios, it operates in complementary modes like PV-Battery or PV-Battery-Diesel Generator.

 In the event of a mains power outage, it seamlessly switches to backup mode in less than < 10ms, ensuring a continuous power supply for users.

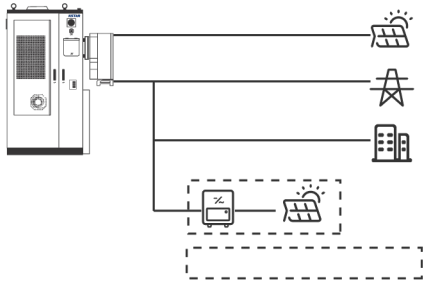
System Configuration:

KSTAR BluePulse PV+ESS All-in-One system features a KAC50DP2 series hybrid inverter and a BC107DE2 series battery cabinet, with the option to add an extra battery cabinet for expansion.

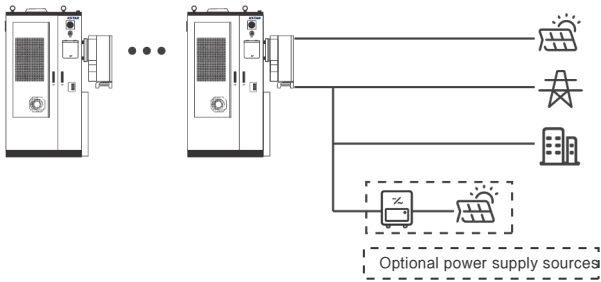


Applications:

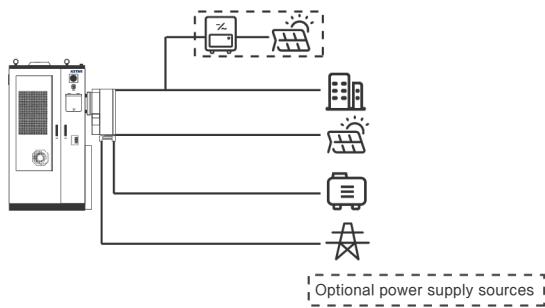
On-Grid Solution



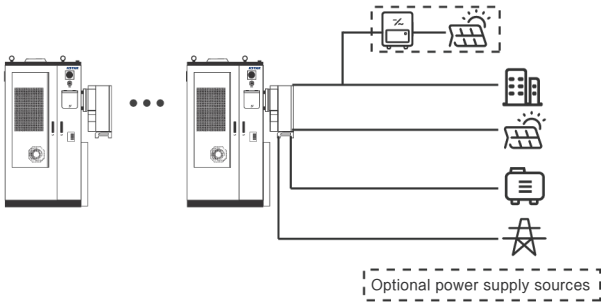
Up to 20 Unit System in Parallel



On/off Grid Solution & Off Grid Solution



Up to 6 Unit System in Parallel



- On Grid

- Export Limit
 - Import Limit
- Off Grid

► On/Off Grid Switching Support Both DC coupling and AC coupling PV-ESS Solution

► >150% of the system capacity



- Factory Load is supported
- Motor load shall be not more than 1/3 of the system capacity

► Support PV-ESS-EV Charger smart control



BluePulse Series

KAC50DP2-BC107DE2

Three Phase 50kW Hybrid Inverter
107kWh Cabinet

- Powered by CATL 10 Years Performance Warranty
- 280ah large capacity cell, higher energy density
- Backup / Genset Input Integrated
- Integrated self-developed BMS / EMS for flexibility
- Fire Safety with Alarms, Valves, Smoke / CO sensors, UL 9540A Certified
- Small size, small footprint Long-lasting battery cycle life
- Off-grid Expandable up to 6 ParallelOn-grid Expandable up to 20 Parallel
- Compact design saves space Cloud control with 24/7 monitoring

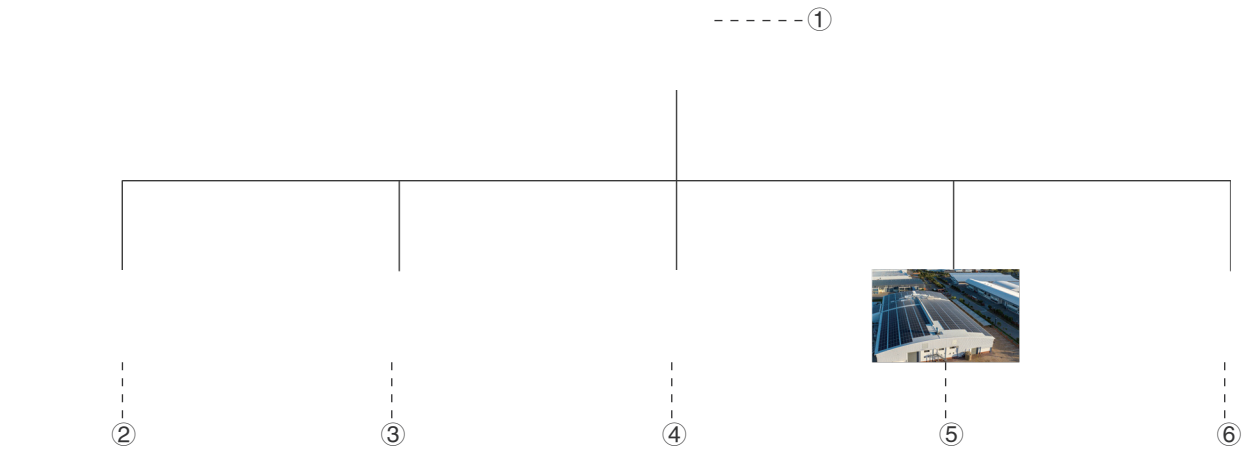
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KSTAR BluePulse PV+ESS All-in-One system serves as a multiple energy source gateway.

•It efficiently controls and distributes power from various sources, including mains electricity, solar photovoltaics, and diesel generators. The system supports multiple grid-connected modes such as self-consumption, time-of-use, and peak shaving, tailored to diverse customer needs.

• In off-grid scenarios, it operates in complementary modes like PV-Battery or PV-Battery-Diesel Generator.

On the event of a continuous power outage, it seamlessly switches to backup mode in less than 10ms, ensuring a continuous power supply for users.



- ①

▶ AC capacity ranges from 20KW~50KW

▶ Battery capacity ranges from 70KWH~214KWH
- ②

▶ On Grid

• Export Limit

• Import Limit

▶ Off Grid

▶ On/Off Grid Switching
- ③

▶ >150% of the system capacity
- ④

▶ Support Both DC coupling and AC coupling PV-ESS Solution
- ⑤

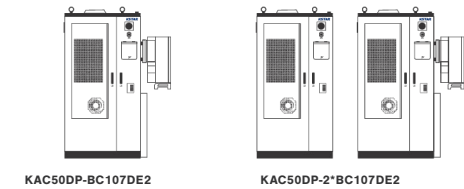
▶ Factory Load is supported

▶ Motor load shall be not more than 1/3 of the system capacity
- ⑥

▶ Support PV-ESS-EV Charger smart control

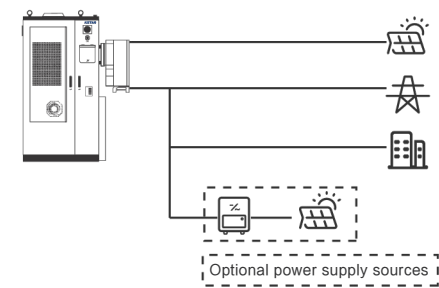
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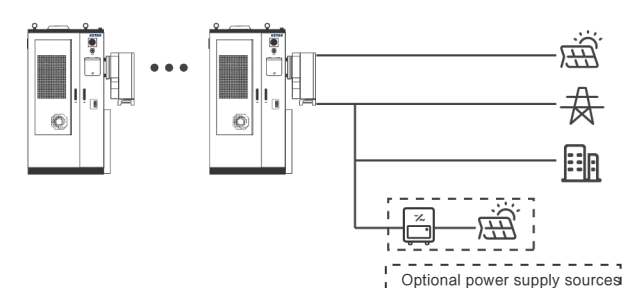


Applications:

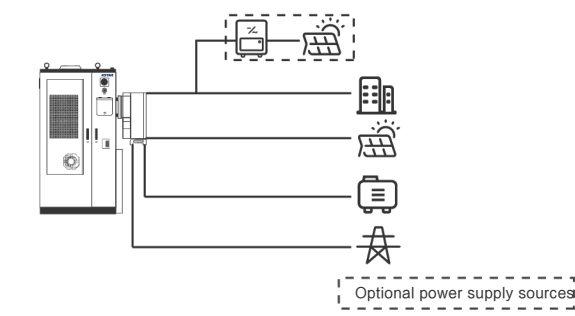
On-Grid Solution



Up to 20 Unit System in Parallel



On/off Grid Solution & Off Grid Solution



Up to 6 Unit System in Parallel

