

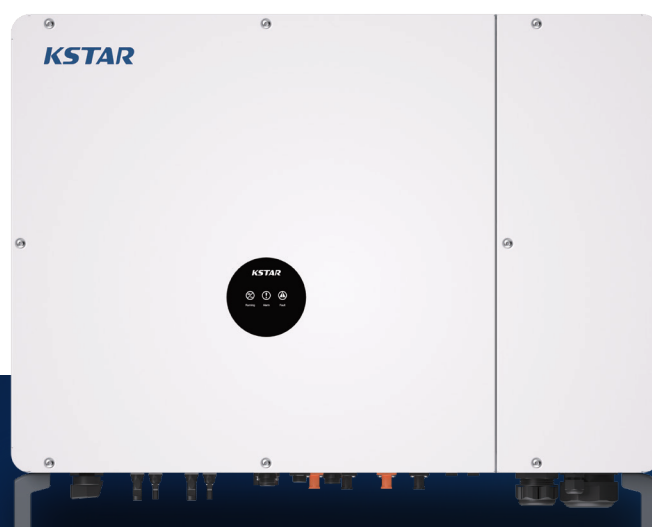
Generating
Superior Solutions
for Energy and More

Hybrid Inverter **NEW**
KAC(20~50)DP2
BluePulse Series

Power

20 / 25 / 29.9 / 30 kW

40 / 49.9 / 50 kW



- DC- and AC-Coupled Solar + Storage Solutions
- Integrated STS with 10 ms Switching
- Supports up to 200% DC / AC Ratio



Hybrid Inverter Parameters

Product Specifications	KAC20DP2	KAC25DP2	KAC29.9DP2	KAC30DP2	KAC40DP2	KAC49.9DP2	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	400 ~ 800 V	500 ~ 800 V	600 ~ 800 V	620 ~ 800 V
Max. PV Power	40 kWp	50 kWp	60 kWp	60 kWp	80 kWp	100 kWp	100 kWp
Startup Voltage	180 V						
Number of MPPT / Strings per MPPT	4 / 2						
Max. Continuous Input Current per MPPT	45 A						
Max. Short-Circuit Current per MPPT	60 A						
Battery Side							
Battery Type	LFP (LiFePO4)						
Battery Voltage Range	150 ~ 900 Vdc						
Battery Rated Voltage Range	180 ~ 800 Vdc						
Max. DC Current	40 Adc x 2	50 Adc x 2	60 Adc x 2	60 Adc x 2	80 Adc x 2	80 Adc x 2	80 Adc x 2
Max. DC Power	22 kW	27.5 kW	29.9 kW	33 kW	44 kW	49.9 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	49.9 kW	50 kW
Max. AC Output Power	22 kVA	27.5 kVA	29.9 kVA	33 kVA	44 kVA	49.9 kVA	55 kVA
Max. AC Input Power (Single-phase)	20 kW	25 kW	25 kW	25 kW	27.5 kW	37.5 kW	37.5 kW
Rate AC Output Current	29 A	36 A	43 A	43 A	58 A	72 A	72 A
Max. AC Input Current	64 A	80 A	87 A	96 A	128 A	144 A	160 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	20 kW	25 kW	29.9 kW	30 kW	40 kW	49.9 kW	50 kW
Max. AC Output Power (Single-phase)	20 kW	20 kW	20 kW	20 kW	25 kW	25 kW	25 kW
Max. Output Current	87 A	87 A	87 A	87 A	110 A	110 A	110 A
Genset Input							
Max. Input Current	87 A	87 A	87 A	87 A	110 A	110 A	110 A
Efficiency							
Max. Efficiency	97%				97.5%		

Hybrid Inverter Parameters

Product Specifications	KAC20DP2	KAC25DP2	KAC29.9DP2	KAC30DP2	KAC40DP2	KAC49.9DP2	KAC50DP2
Protection							
Reverse DC Connection Protection					Yes		
Anti-Islanding Protection					Yes		
Over-Temperature Protection					Yes		
Grid Monitoring / Earthing Fault Detection					Yes		
Insulation Monitoring					Yes		
Environmental Category					Outdoor		
Overvoltage Category					DC II; AC III		
Protective Class					I		
Pollution Degree					PD2 (internal), PD3 (external)		
Active Anti-islanding Method					Power Variation		
DC / AC Surge Protection					DC Type II; AC Type III		
AFCI					Optional		
General Parameters							
Dimensions (W x H x D)					900 x 650 x 322 mm		
Weight					101 kg		
Topology					Non-isolated		
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					3000 m (> 3000 m Derating)		
Communication Port					RS-485 / CAN		
Country of Manufacture					China		
Warranty					10 Years		
Certificate					EN IEC 61000-6/3; EN IEC 62920; IEC EN 62109-1/2; IEC EN 62477-1/62991; IEC 61683; EN50549-1/2/10; IEC 61727&62116; AS4777.2		