

Single Phase Hybrid Inverter

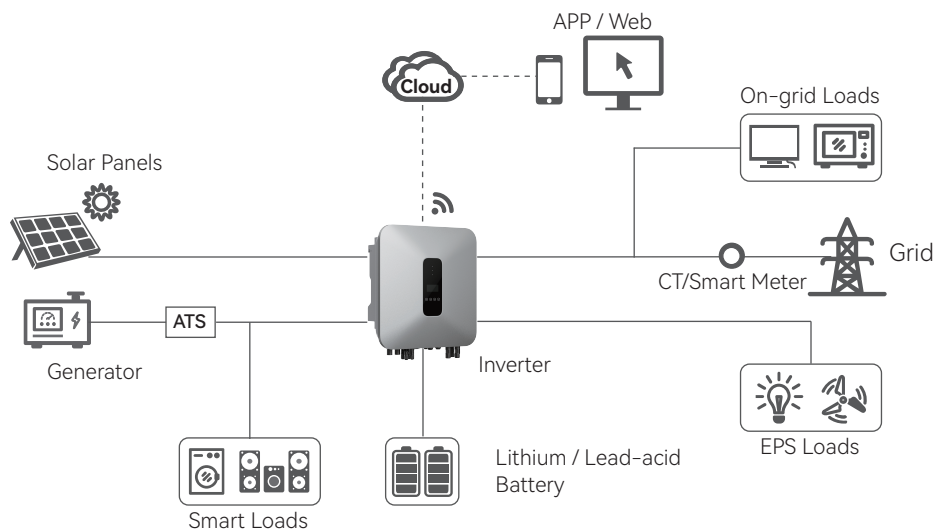


HN3KS-AH2(G) / HN3K6S-AH2(G) / HN4KS-AH2(G)
HN5KS-AH2(G) / HN6KS-AH2(G)

- Wide MPPT range
- 2 MPPT trackers
- Type II SPD on DC/AC
- 19A MPPT input current per string
- IP66 protection level
- Support generator and smart loads
- Integrated and concise design

System Diagram

MAXHUB



*Generator and smart loads function are available in some market with AH2G series.

Specifications

Model	HN3KS-AH2	HN3K6S-AH2	HN4KS-AH2	HN5KS-AH2	HN6KS-AH2
PV Input					
Max. PV Input Power(kW)	4.5	5.5	6	7.5	9
Max. PV Open Circuit Voltage(V)			550		
MPPT Range@Operating Voltage(VDC)			80-520		
Full Power MPPT Voltage Range(VDC)	117-500V	145-500V	158-500V	197-500V	250-500V
Start-up Voltage(VDC)			100		
Max. Input Current per MPPT(A)			19/19		
Max. Short-circuit Current(A)			25/25		
MPPT Tracker/Strings			2 / 1		
Nominal Input Voltage(V)			360		
AC Output(On-Grid)					
Nominal Output Power to Grid(kW)	3	3.68	4	5	6
Max. Apparent Power to Grid(kVA)	3	3.68	4	5	6
Max. Apparent Power from Grid(kVA)	3	3.68	4	5	6
Max. Apparent Current from Grid(A)	13.1	16	17.4	21.8	26.1
Nominal Output Current from Grid(A)	13.1	16	17.4	21.8	26.1
Max. Output Current to Grid(A)	13.1	16	17.4	21.8	26.1
Nominal Voltage/Frequency			230V(176V~280V), 50/60Hz, L+N+PE		
Adjustable Power Factor			0.8leading-0.8lagging		
THDI			<2%		
AC Output(BackUp)					
Nominal Output Power(kW)	3	3.68	4	5	6
Max. Apparent Power(kVA)	3	3.68	4	5	6
Nominal Output Current(A)	13.1	16	17.4	21.8	26.1
Max. Output Current(A)	13.1	16	17.4	21.8	26.1
Nominal Voltage/Frequency			230V(176V~238V), 50/60Hz, L+N+PE		
Automatic Switch Time(ms)			<20		
THDu			<2%		
Overload Capacity		110%, 10s / 150%, 5s / 180%, 1s / 200%, 100ms			
Efficiency					
Max. Efficiency			96.13%		
Europe Efficiency			95.50%		
MPPT Efficiency			99.99%		
Max. Battery Charge/Discharge Efficiency			94.60%		
Battery					
BatteryVoltage Range(V)			40-60		
Recommended Battery Voltage(V)			48		
Max. Charging Voltage(V)			60		
Max. Charging/Discharging Current(A)	80/80	80/80	80/80	120/120	120/120
BatteryType			Lithium and Lead Acid Battery		
Protection					
DC Switch			Yes		
DC Reverse Polarity Protection			Yes		
DC/AC Surge Protection			Type II/Type II		
AC Overvoltage Protection			Yes		
AC Short-circuit Protection			Yes		
Ground Fault Monitoring			Yes		
Anti-islanding Protection			Yes		
Residual-current Monitoring			Yes		
Insulation Resistance Monitoring			Yes		
Peak/Valley Time Setting			Yes		
General Data					
HMI			LCD & APP		
BMS			RS485; CAN		
EMS/Meter			RS485		
Communication			WiFi/LAN		
Ingress Protection			IP66		
Operating Temperature Range			-25-60 °C		
Relative Humidity			0-95%(Non-condensing)		
Max. Operating Altitude			4000m(Derating above 3000m)		
Cooling			Natural		
Noise Emission			≤ 29dB		
Dimensions(H*W*D)		525*485*225mm(without terminal and bracket)			
Net Weight(kg)	23.5	23.5	23.5	24	24
Self-consumption(W)			<15		
Standard Compliance					
Safety Regulation			IEC/EN62109-1/-2		
EMC			IEC/EN61000-6-1/-2/-3/-4		
GridRegulation		IEC61727; IEC62116; Europe: EN50549; Belgium: C10/11; Spain: UNE217002; Italy: CEI 021; South Africa: NRS 097			