

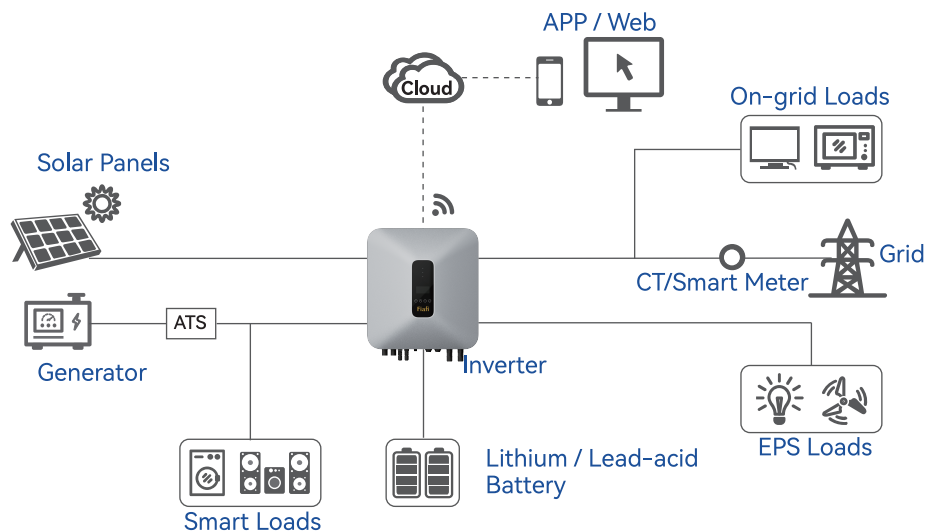
Single Phase Hybrid Inverter



**HN6KS-AH2G
6KW**

- 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



Specifications



Model	HN6KS-AH2G
PV Input	
Max. PV Input Power (kW)	9
Max. PV Open Circuit Voltage (V)	550
MPPT Range@Operating Voltage (VDC)	80~520
Full Power MPPT Voltage Range (VDC)	250~500V
Start-up Voltage (VDC)	90
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)	6
Max. Apparent Power to Grid (kVA)	6
Max. Apparent Power from Grid (kVA)	6
Max. Apparent Current from Grid (A)	26.1
Nominal Output Current from Grid (A)	26.1
Max. Output Current to Grid (A)	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)	6
Max. Apparent Power (kVA)	6
Nominal Output Current (A)	26.1
Max. Output Current (A)	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	96.65%
Europe Efficiency	97.50%
MPPT Efficiency	99.00%
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)	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 (W*H*D)	485*525*225mm (without terminal and bracket)
Net Weight (kg)	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