

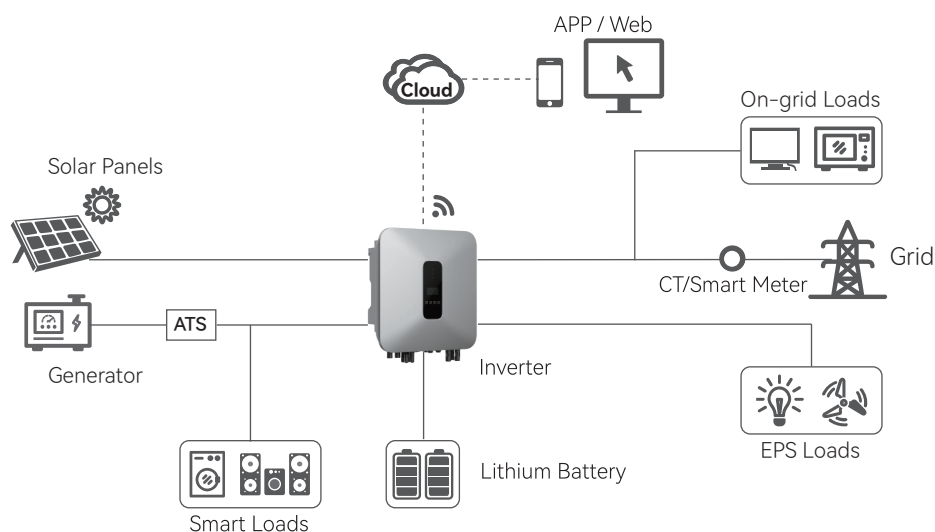
Three Phase Hybrid Inverter

- Wide MPPT range
- 2 MPPT trackers
- Max 2 PV strings per MPPT tracker
- Peak efficiency 98.4%
- IP66 protection level
- Integrated and concise design



NKI-6KT-BH1/NKI-8KT-BH1/NKI-10KT-BH2
NKI-12KT-BH2/NKI-15KT-BH2

System Diagram



*Generator function is available in some market.

Specifications

Model	NKI-6KT-BH1	NKI-8KT-BH1	NKI-10KT-BH2	NKI-12KT-BH2	NKI-15KT-BH2
PV Input					
Max. PV Input Power(kW)	9	12	15	18	22.5
Max. PV Open Circuit Voltage(V)	1000				
MPPT Range@Operating Voltage(VDC)	120 - 950				
Full Power MPPT Voltage Range(VDC)	380 - 850				
Start-up Voltage(VDC)	120				
Nominal Input Voltage(V)	780				
Max. Input Current per MPPT(A)	15	15	15 / 15	30 / 15	30 / 30
Max. Short-circuit Current(A)	36	36	36 / 36	36 / 36	36 / 36
MPPT Tracker/Strings	1	1	2	2	2
PV Strings per MPPT Tracker	1	1	1 / 1	2 / 1	2 / 2
AC Output(On-Grid)					
Nominal Output Apparent Power to Grid(kVA)	6	8	10	12	15
Max. Apparent Power to Grid(kVA)	6.6	8.8	11	13.2	16.5
Max. Output Current to Grid(A)	10	13.4	16.7	20	25
Nominal Apparent Power from Grid(kVA)	6	8	10	12	15
Max. Apparent Power from Grid(kVA)	12	16	20	24	24
Max. Current from Grid(A)	18.3	24.4	30.4	36.5	36.5
Nominal Voltage/Frequency	220/380, 230/400, 240/415, 50/60Hz, L1/L2/L3+N+PE				
Adjustable Power Factor	0.8leading~0.8lagging				
THDI	<3%				
AC Output(BackUp)					
Nominal Output Power(kW)	6	8	10	12	15
Max. Apparent Power(kVA)	6.6	8.8	11	13.2	16.5
Max. Output Current(A)	10	13.4	16.7	20	25
Nominal Voltage/Frequency	220/380, 230/400, 240/415, 50/60Hz, L1/L2/L3+N+PE				
Automatic Switch Time(ms)	<10				
THDu	<2%				
Overload Capacity	110%,30s/120%,10s/150%,0.02s				
Efficiency					
Max. Efficiency	98.30%	98.30%	98.30%	98.40%	98.40%
Europe Efficiency	97.90%	97.90%	97.90%	98.00%	98.00%
Max. Battery Charge/Discharge Efficiency	97.40%	97.40%	97.40%	97.30%	97.30%
Battery					
BatteryVoltage Range(V)	100 - 710				
Max. Charging/Discharging Current(A)	50 / 50				
Max. Charging/Discharging Power(kW)	6 / 6	8 / 8	10 / 10	12 / 12	15 / 15
BatteryType	Lithium				
Protection					
DC Switch	Yes				
DC Reverse Polarity Protection(PV/Batt)	Yes				
DC/AC Surge Protection	Type II/Type II				
AC Overvoltage Protection	Yes				
AC Overcurrent Protection	Yes				
AC Short-circuit Protection	Yes				
Anti-islanding Protection	Yes				
Residual-current Monitoring	Yes				
Insulation Resistance Monitoring	Yes				
General Data					
HMI	LCD & APP				
BMS	RS485; CAN				
EMS/Meter	RS485				
Communication	WiFi/Ethernet				
Ingress Protection	IP66				
Operating Temperature Range	-25~60℃				
Relative Humidity	0~100%(Non-condensing)				
Max. Operating Altitude	4000m(Derating above 3000m)				
Cooling	Smart Fan				
Topology	Transformerless				
Dimensions(W*H*D, mm)	485*525*245(without terminal and bracket)				
Net Weight(kg)	30	30	32	33	33
Self-consumption(W)	<15				
Standard Compliance					
Safety Regulation	IEC/EN62109-1/-2				
EMC	IEC/EN61000-6-1/-2/-3/-4				
GridRegulation	Europe: EN50549, Belgium: C10/11, Germany: VDE-AR-N 4105, Italy: CEI 0-21, UNE217001/217002				