

SINGLE PHASE HYBRID INVERTER

单相混合逆变器

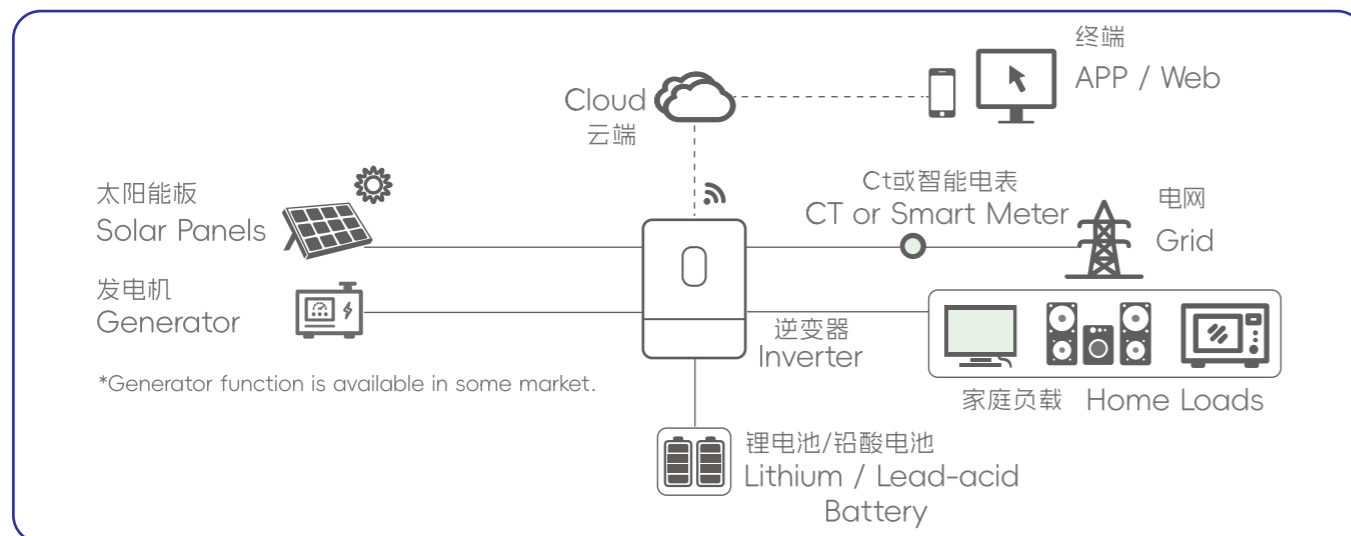
HN3KS/HN3K6S/HN4KS/HN5KS/HN6KS



Main Features 主要特点

- Wide MPPT Range
宽MP Pt范围
- 2 MPPT trackers
2个MPPT跟踪器
- Type III SPD both on DC&AC side
直流侧和交流侧都使用Type III SPD类型
- 19A MPPT input current per string
19A MPPT输入电流每串
- IP66 protection level
Ip66防护等级
- Integrated and concise design
集成简洁的设计

系统图 System Diagram



规格参数 Specifications Parameter

型号 Model	HN3KS	HN3K6S	HN4KS	HN5KS	HN6KS
光伏输入 PV Input					
输入功率 Max. PV Input Power(kW)	4.5	5.5	6	7.5	9
开路电压Max. PV Open Circuit Voltage(V)	550				
电压范围MPPT Voltage Range (VDC)	80~500				
最大功率电压范围 Full Power MPPT Voltage Range(VDC)	117~500V	145~500V	158~500V	197~500V	250~500V
启动电压 Start-up Voltage(VDC)	90				
输入电流 Max. Input Current per MPPT(A)	19/19				
短路电流 Max. Short-circuit Current(A)	25/25				
光伏串数 MPPT Tracker	2				
额定输入电压 Nominal Input Voltage(V)	360				
交流输出(并网)AC Output(On-Grid)					
额定功率Nominal Output Power to Grid(kW)	3	3.68	4	5	6
并网功率Max. Apparent Power to Grid(kVA)	3	3.68	4	5	6
视在功率Max. Apparent Power from Grid(kVA)	3	3.68	4	5	6
视在电流Max. Apparent Current from Grid(A)	13.1	16	17.4	21.8	26.1
标称电流Nominal Output Current from Grid(A)	13.1	16	17.4	21.8	26.1
输出电流Max. Output Current to Grid(A)	13.1	16	17.4	21.8	26.1
标称电压频率 Nominal Voltage/Frequency	230V(176V~280V), 50/60Hz, L+N+PE				
可调功率因数 Adjustable Power Factor	0.8leading~0.8lagging				
电流谐波总畸变率 THDI	<2%				
交流输出(备用) AC Output(BackUp)					
标称功率Nominal Output Power(kW)	3	3.68	4	5	6
视在功率Max. Apparent Power(kVA)	3	3.68	4	5	6
标称电流Nominal Output Current(A)	13.1	16	17.4	21.8	26.1
输出电流Max. Output Current(A)	13.1	16	17.4	21.8	26.1
额定电压频率 Nominal Voltage/Frequency	230V(176V~280V), 50/60Hz, L+N+PE				
切换时间 Automatic Switch Time(ms)	<20				
电压谐波总畸变率THDu	<2%				
过载能力 Overload Capacity	110%,10s /130%,3s /150%,50ms				
效率 Efficiency					
最大效率 Max.Efficiency	96.65%				
光伏效率 MPPT Efficiency	99.00%				
充放电效率Max. Battery Charge/Discharge Efficiency	94.60%				
电池 Battery					
电压范围 BatteryVoltage Range(V)	40~60				
推荐电池电压Recommended Battery Voltage(V)	48				
最大充电电压Max. Charging Voltage(V)	60				
充放电电流Max. Charging/Discharging Current(A)	80/80	80/80	80/80	120/120	120/120
电池类型 BatteryType	Lithium and Lead Acid Battery				
保护 Protection					
直流开关 DC Switch	Yes				
直流反极性保护DC Reverse Polarity Protection	Yes				
交直流浪涌保护DC/AC Surge Protection	Type III/Type III				
交流过压保护AC Overvoltage Protection	Yes				
交流短路保护AC Short-circuit Protection	Yes				
接地故障监控 Ground Fault Monitoring	Yes				
防孤岛保护 Anti-islanding Protection	Yes				
剩余电流动态监测 Residual-current Monitoring	Yes				
绝缘电阻监测 Insulation Resistance Monitoring	Yes				
峰谷时间设置 Peak/Valley Time Setting	Yes				
一般数据 General Data					
人机界面 HMI	LCD & APP				
电池管理系统 BMS	RS485; CAN				
能量管理系统 EMS/Meter	RS485				
通讯Communication	WIFI/LAN				
防护等级Ingress Protection	Ip66				
工作温度Operating Temperature Range	-25~60°C				
湿度Relative Humidity	0~95%(Non-condensing)				
工作海拔Max. Operating Altitude	4000m(Derating above 3000m)				
冷却Cooling	Natural				
噪音Noise Emission	≤29dB				
尺寸Dimensions(W*H*D)	486*528*205mm				
包装尺寸 Package Size(W*H*D)mm	690*580*300mm				
自用电Self-consumption(W)	<15				
标准合规Standard Compliance					
安全规范Safety Regulation	IEC/EN62109-1/-2				
电磁兼容 EMC	IEC/EN61000-6-1/-2/-3/-4				
电网调节GridRegulation	IEC61727; Europe: EN50549; Belgium: C10/11; Spain: NTS-631; Italy: CEI 021				