



HYBRID INVERTER

HYX-H3K/3K6/4K/ 4K6/5K/6K/8K-HS



Safe & Reliable

- Type II DC/AC surge protection, lightning-proof
- 300m AFCI detection with 0.5s rapid shutdown
- IP65, C4 salt spray resistance

Convenient & User-Friendly

- Compact design, 30-minute quick installation
- App-enabled quick setup, simple and efficient
- UPS-grade seamless on/off-grid switching

Profitable & Efficient

- Start-up of 50V, wide MPPT range for higher revenue
- 160% overload capacity, 150% instant off-grid overload
- 16A design, 35A battery fast charging/discharging

Smart & Manageable

- Intelligent IV diagnostics for precise fault identification
- Scenario-based app with real-time energy monitoring
- Intelligent control for generators and heat pumps

Product Model	HYX-H3K-HS	HYX-H3K6-HS	HYX-H4K-HS	HYX-H4K6-HS	HYX-H5K-HS	HYX-H6K-HS	HYX-H8K-HS
PV Input							
Max. Array Power	6,000W	7,200W	8,000W	9,200W	10,000W	12,000W	1,6000W
Max. Input Power	3,000W / 1,800W	3,600W / 2,160W	4,000W / 2,400W	4,600W / 2,760W	5,000W / 3,000W	5,000W / 4,600W	6,400W / 6,400W
Max. Input Voltage				600V			
Start-up Voltage				50V			
MPPT Operating Voltage Range				80 - 560V			
Max. Input Current				32A (16 / 16)			
Max. Short-circuit Current				48A (24 / 24)			
Number of MPPTs				2			
PV input number(Number of String Per MPPT)				2 (1 / 1)			
AC Input / Output							
Nominal Power	3,000W	3,600W	4,000W	4,600W	5,000W	6,000W	8,000W
Max. Apparent Power	3,300VA	4,000VA	4,400VA	5,060VA	5,500VA	6,600VA	8,800VA
Nominal Current	13.6A	16.3A	18.1A	20.9A	22.7A	27.2A	36.3A
Max. Current	15.0A	18.0A	20.0A	23.0A	25.0A	30.0A	40.0A
Nominal Voltage	1 / N / PE, 220 / 230 / 240V						
AC Voltage Range	154 ~ 276V						
THDi	< 3%						
Frequency	50 / 45-55Hz; 60 / 55-65Hz						
Adjustable Power Factor	0.8 leading...0.8 lagging						
DC Current Injection	< 0.5% In						
Back-Up(AC Output)							
Nominal Output Power	3,000VA	3,600VA	4,000VA	4,600VA	5,000VA	6,000VA	8,000VA
Max. Continues Output Apparent Power	3,300VA	4,000VA	4,400VA	5,060VA	5,500VA	6,600VA	8,000VA
Peak Output Power	4,500W; 10s	5,400W; 10s	6,000W; 10s	6,900W; 10s	7,500W; 10s	9,000W; 10s	9600W; 10s
Max. Output Current	15.0A	18.0A	20.0A	23.0A	25.0A	30.0A	36.3A
Switch Time	< 10ms						
Battery							
Battery Type				LiFePO4			
Battery Voltage Range				80 - 490V			
Max. Charge/Discharge Current				35A			
Max. Charge/Discharge Power				8,000W			
Efficiency							
Max. Efficiency				98.60%			
European Weighted Efficiency				98.20%			
MPPT Efficiency				99.90%			
Battery Charge/ Discharge Efficiency				97.50%			
Protection							
DC Insulation Resistance Detection				Yes			
Residual Current Monitoring				Yes			
DC Reverse Polarity Protection				Yes			
DC/AC Surge Protection				Type II			
DC Switch				Yes			
Anti-islanding Protection				Yes			
AC Over Current Protection				Yes			
AC Short-circuit Protection				Yes			
AC Over Voltage Protection				Yes			
Grounded Fault Detection				Yes			
General Data							
Operating Temperature Range				-25 to + 60°C			
Relative Operating Humidity				0 - 100 %RH			
Max. Operating Altitude				4,000m			
Cooling				Natural Cooling			
Display				LED / App / Web			
Communication				CAN / RS485 / WIFI / 4G / LAN			
Weight				20kg			
Dimensions (W*H*D)				522*416*177.6mm			
Degree of Protection				IP65			
Mounting				Wall Mounted			