

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

Technical Specifications

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	9,600W; 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						