

HYBRID INVERTER

HYX-H5K/6K/8K/ 10K/12K-HT



Safe & Reliable

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

Convenient & User-Friendly

- Compact design, 30-minute quick installation
- App-enabled quick setup, simple and efficient
- Intelligent layout with rapid module-level visualization
- UPS-grade seamless on/off-grid switching

Profitable & Efficient

- Start-up of 160V, wide MPPT range for higher revenue
- 160% overload capacity, 150% instant off-grid overload
- 18A design, 35A battery fast charging/discharging

Smart & Manageable

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

Product Model	HYX-H5K-HT	HYX-H6K-HT	HYX-H8K-HT	HYX-H10K-HT	HYX-H12K-HT
PV Input					
Max. Array Power	10,000W	12,000W	16,000W	20,000W	24,000W
Max. Input Power	5,000W / 3,000W	6,000W / 4,000W	6,400W / 6,400W	6,400W / (4,800W/4,800W)	6,400W / (6,400W/6,400W)
Max. Input Voltage				1,000V	
Start-up Voltage				160V	
MPPT Operating Voltage Range				140 - 980V	
Max. Input Current				36A (18 / 18)	54A (18 / 18*2)
Max. Short-circuit Current				60A (30 / 30)	90A (30 / 30*2)
Number of MPPTs				2	
PV input number(Number of String Per MPPT)				2 (1 / 1)	3 (1 / 2)
AC Input / Output					
Nominal Output Power	5,000W	6,000W	8,000W	10,000W	12,000W
Max. Output Apparent Power	5,500VA	6,600VA	8,800VA	11,000VA	13,200VA
Max. Input Apparent Power	11,000VA	13,200VA	17,600VA	22,000VA	26,400VA
Nominal Output Voltage	3 / N / PE, 220 / 380V, 230 / 400V, 240 / 415V				
Max. Output Current	8.4A	10A	13.4A	16.7A	20A
Max. Input Current	16.7A	20A	26.7A	33.4A	40A
Nominal Output Current	7.6A	9.1A	12.2A	15.2A	18.2A
THDi	< 3%				
Frequency	45-55Hz; 5-65Hz				
Adjustable Power Factor	0.8 leading...0.8 lagging				
DC Current Injection	< 0.5% In				
Back-Up(AC Output)					
Nominal Output Power	5,000VA	6,000VA	8,000VA	10,000VA	12,000VA
Max. Continues Output Apparent Power	5,500VA	6,600VA	8,800VA	11,000VA	13,200VA
Peak Output Power	7,500W; 10s	9,000W; 10s	12,000W; 10s	15,000W; 10s	15,000W; 10s
Nominal Output Current	7.6A	9.1A	12.2A	15.2A	18.2A
Max. Output Current	11.4A	13.7A	18.2A	22.8A	27.3A
Switch Time	< 10ms				
Battery					
Battery Type	LiFePO4				
Battery Voltage Range	150 - 600V				
Max. Charge/Discharge Current	40A				
Max. Charge/Discharge Power	5,500W	6,600W	8,800W	11,000W	13,200W
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	-30 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	34kg				
Dimensions (W*H*D)	542*478*186mm				
Degree of Protection	IP65				
Mounting	Wall Mounted				