

HYBRID INVERTER

HYX-H15K/20K/ 25K-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
- 20A design, 60A 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

HYX-H15K/20K/25K-HT
Technical Specifications

Product Model	HYX-H15K-HT	HYX-H20K-HT	HYX-H25K-HT
PV Input			
Max. Array Power	30,000W	40,000W	50,000W
Max. Input Power	(6,000W/6,000W) / (6,000W/6,000W)	(8,000W/8,000W) / (8,000W/8,000W)	(10,000W/10,000W) / (10,000W/10,000W)
Max. Input Voltage		1,100V	
Start-up Voltage		160V	
MPPT Operating Voltage Range		140 - 1,000V	
Max. Input Current		80A (20*2 / 20*2)	
Max. Short-circuit Current		120A (30*2 / 30*2)	
Number of MPPTs		2	
PV input number(Number of String Per MPPT)		4 (2 / 2)	
AC Input / Output			
Nominal Input / Output Apparent Power	31,500VA / 15,000VA	42,000VA / 20,000VA	52,500VA / 25,000VA
Max. Input / Output Apparent Power	33,000VA / 16,500VA	44,000VA / 22,000VA	55,000VA / 27,500VA
Nominal Input / Output Current	47.8A / 22.8A	63.7A / 30.4A	79.5A / 37.9A
Max. Input / Output Current	50.0A / 25.0A	66.7A / 33.4A	83.4A / 41.7A
Output Voltage Range		3 / N / PE, 220 / 380V, 230 / 400V, 240 / 415V	
Nominal Output Voltage		< 3%	
THDi		304 - 476V	
Frequency		50 / 60Hz	
Adjustable Power Factor		0.8 leading...0.8 lagging	
DC Current Injection		< 0.5% In	
Back-Up(AC Output)			
Nominal Output Power	15,000W	20,000W	25,000W
Max. Continues Output Apparent Power	16,500VA	22,000VA	27,500VA
Peak Output Power	22,500W; 10s	30,000W; 10s	30,000W; 10s
Nominal Output Current	22.8A	30.4A	37.9A
Max. Output Current	34.1A	45.5A	56.9A
Switch Time		< 10ms	
Battery			
Battery Type		LiFePO4	
Battery Voltage Range		150 - 600V	
Max. Charge/Discharge Current		60A	
Max. Charge/Discharge Power	16,500W	22,000W	27,500W
Efficiency			
Max. Efficiency		98.60%	
European Weighted Efficiency		98.20%	
MPPT Efficiency		99.90%	
Battery Charge/ Discharge Efficiency		97.70%	
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	Fan Cooling	Fan Cooling
Display		LED / App / Web	
Communication		CAN / RS485 / PLC / WIFI / 4G / LAN	
Weight		45kg	
Dimensions (W*H*D)		658*523*220mm	
Degree of Protection		IP65	
Mounting		Wall Mounted	