

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

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	478A / 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		