

# HYBRID INVERTER

## HYX-H50K/75K/ 100K/110K/125K-ET



### Safe & Reliable

- Type II DC/AC surge protection, lightning-proof
- 300mA AFCI detection with 0.5s rapid shutdown
- IP66, 1400+ cumulative rigorous tests

### Convenient & User-Friendly

- Compact and lightweight design, plug-and-play installation
- App-based quick setup, simple and efficient

### Profitable & Efficient

- 40A design, dynamic MPPT efficiency of 99.9%
- Built-in PID repair, improving overall system performance
- AI dynamic MPPT, boosting power generation by 5%
- DC coupled solution, higher system efficiency
- PV-ESS integrated, lower system cost

### Smart & Manageable

- Three-phase wiring sequence adaptive, easy system wiring
- Intelligent IV diagnostics for precise fault identification
- Real-time monitoring with OTA for online maintenance

# HYX-H50K/75K/100K/110K/125K-ET

## Technical Specifications

Product Model	HYX-H50K-ET	HYX-H75K-ET	HYX-H100K-ET	HYX-H110K-ET	HYX-H125K-ET
DC Input (PV)					
Max. Input Voltage			1,100V <sup>1</sup>		
Rated Input Voltage			650V		
Start-up Voltage			160V		
MPPT Operating Voltage Range			140V - 1,000V		
Max. Input Current per MPPT			40A		
Max. Input Current per String			20A		
Max. Short-circuit Current per MPPT			50A		
Number of MPPT	4	6	8	8	8
Number of Input	8	12	16	16	16
Max. Backfilling Current			0A		
DC Input (Battery)					
Rated Input Voltage			768V		
Battery Voltage Range			680V - 1,000V		
Max. Charge/Discharge Current	80.8V	121.3V	161.7V	177.9V	183.8V
AC Output					
AC Output Power	50kW	75kW	100kW	110kW	125kW
Max. Apparent Power	55kVA	82.5kVA	110kVA	121kVA	125kVA
Rated Output Voltage			220/380V, 230/400V, 3L/N/PE		
AC Grid Frequency			50 / 60Hz		
Rated Output Current	75.9A/380V 72.1A/400V	113.9A/380V 108.2A/400V	151.9A/380V 144.3A/400V	167.1A/380V 158.7A/400V	189.9A/380V 180.4A/400V
Max. Output Current	83.5A/380V 79.3A/400V	125.3A/380V 119.0A/400V	167.1A/380V 158.7A/400V	183.8A/380V 174.6A/400V	189.9A/380V 180.4A/400V
Adjustable Power Factor	> 0.99 / 0.8 leading...0.8 lagging				
Three Phase Unbalanced Output	100% Unbalanced Output				
THDi	< 3%				
Efficiency					
Max. Efficiency	98.5%				
European Weighted Efficiency	98.0%				
MPPT Efficiency	99.9%				
Protection					
Active Anti-islanding Protection	Yes				
Residual Current Monitoring	Yes				
DC Reverse Polarity Protection	Yes				
DC Switch	Yes				
AC Short-Circuit Protection	Yes				
AC Overvoltage Protection	Yes				
AC Overcurrent Protection	Yes				
DC Surge Protection	Type II				
AC Surge Protection	Type II				
AFCI	Optional				
PID Recovery	Optional				
General Data					
Operating Temperature Range	-30 to + 60°C				
Relative Operating Humidity	0 ~ 100 %RH				
Operating Altitude	4,000m				
Cooling	Smart Air Cooling				
Display	LED+APP				
Communication	RS485 / 4G / WIFI / HPLC				
Weight	95kg				
Dimensions (W*H*D)	878*860*363mm				
Topology	Non-Isolated				
Degree of Protection	IP66				

1: When connected to the battery cabinet, the maximum PV input voltage is 650V.