

Hybrid Inverter

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

Version 1.7-2603

Design and specifications are subject to change without notice.



Safe & Reliable

- Type II DC / AC Surge Protection
- 300m AFCI Detection with 0.5s Rapid Shutdown
- IP65 & C4 Protection Level

Profitable & Efficient

- 160V MPPT Start-up Voltage, Wide MPPT Range
- 160% MPPT Input Power
- 150% Off-Grid Overload Output for 10s

Convenient & User-Friendly

- 30-Minutes Quick Installation
- 3-Minutes Quick Set-up & Self-Check
- UPS-Grade Seamless Switching

Smart & Manageable

- Intelligent IV Diagnostics
- Module-Level monitoring
- Intelligent Control for Heat Pump

Technical Specifications

HYX-H5K/6K/8K-HT

Product Model	HYX-H5K-HT	HYX-H6K-HT	HYX-H8K-HT
PV Input			
Max. Array Power	10.000W	12.000W	16.000W
Max. Input Power	5.000W / 3.000W	6.000W / 4.00W	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)		
Max. Short-Circuit Current	60A (30 / 30)		
Number of MPPTs	2		
PV Input Number (Number of String per MPPT)	2 (1 / 1)		
AC Input / Output			
Nominal Output Power	5.000W	6.000W	8.000W
Max. Output Apparent Power	5.500VA	6.600VA	8.800VA
Max. Input Apparent Power	11.000VA	13.200VA	17.600VA
Nominal Output Voltage	3 / N / PE, 220 / 380V, 230 / 400V, 240 / 415V		
Max. Output Current	8.4A	10A	13.4A
Max. Input Current	16.7A	20A	26.7A
Nominal Output Current	7.6A	9.1A	12.2A
THDi	< 3%		
Frequency	45 - 55Hz; 55 - 65Hz		
Adjustable Power Factor	0.8 leading...0.8 lagging		
DC Current Injection	< 0.5%In		

Technical Specifications

HYX-H5K/6K/8K-HT

Product Model	HYX-H5K-HT	HYX-H6K-HT	HYX-H8K-HT
Back-Up(AC Output)			
Nominal Output Power	5,000VA	6,000VA	8,000VA
Max. Continuous Output Apparent Power	5,500VA	6,600VA	8,800VA
Peak Output Power	7,500W; 10s	9,000W; 10s	12,000W; 10s
Nominal Output Current	7.6A	9.1A	12.2A
Max. Peak Output Current	11.4A	13.7A	18.2A
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
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 / Wi-Fi / 4G / LAN		
Weight	34kg		
Dimensions (W*H*D)	542*478*186mm		
Degree of Protection	IP65		
Mounting	Wall Mounted		

Technical Specifications

HYX-H10K/12K-HT

Product Model	HYX-H10K-HT	HYX-H12K-HT
PV Input		
Max. Array Power	20,000W	24,000W
Max. Input Power	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	54A (18 / 18*2)	
Max. Short-Circuit Current	90A (30 / 30*2)	
Number of MPPTs	2	
PV Input Number (Number of String per MPPT)	3 (1 / 2)	
AC Input / Output		
Nominal Output Power	10,000W	12,000W
Max. Output Apparent Power	11,000VA	13,200VA
Max. Input Apparent Power	22,000VA	26,400VA
Nominal Output Voltage	3 / N / PE, 220 / 380V, 230 / 400V, 240 / 415V	
Max. Output Current	16.7A	20A
Max. Input Current	33.4A	40A
Nominal Output Current	15.2A	18.2A
THDi	< 3%	
Frequency	45 - 55Hz; 55 - 65Hz	
Adjustable Power Factor	0.8 leading...0.8 lagging	
DC Current Injection	< 0.5%In	
Back-Up(AC Output)		
Nominal Output Power	10,000VA	12,000VA
Max. Continues Output Apparent Power	11,000VA	13,200VA
Peak Output Power	15,000W; 10s	15,000W; 10s
Nominal Output Current	15.2A	18.2A
Max. Peak Output Current	22.8A	22.8A
Switch Time	< 10ms	
Battery		
Battery Type	LiFePO4	
Battery Voltage Range	150 - 600V	
Max. Charge / Discharge Current	40A	
Max. Charge / Discharge Power	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	

Technical Specifications

HYX-H10K/12K-HT

Product Model	HYX-H10K-HT	HYX-H12K-HT
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 / Wi-Fi / 4G / LAN	
Weight	34kg	
Dimensions (W*H*D)	542*478*186mm	
Degree of Protection	IP65	
Mounting	Wall Mounted	