

Hybrid Inverter

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

Version 1.4-2606

Design and specifications are subject to change without notice.



Reliable

- Type II Surge Protection
- IP65, C4 Salt Spray Design
- Support AFCI and RSD, Ultimate Peace of Mind



Efficient

- 160% PV Oversizing + 150% Backup Turbo Output
- 150~600V Wide Battery Voltage Range, 40A Fast Charge/Discharge
- 18A PV Current Wide Adaptation



Simple

- 30mins Quick Installation
- Easy Working Mode, Set and Forget
- Automatic ON/OFF-Grid Switching Time <10ms



Intelligent

- Smart Working Logic
- Generator & Heat Pump Control
- Mobile & PC Platform Management

Technical Specifications

HYX-H5K/6K/8K-HT

Product Model	HYX-H5K-HT	HYX-H6K-HT	HYX-H8K-HT
PV Input			
Max. Array Power	10000W	12000W	16000W
Max. Input Power	5000W/3000W	6000W/4000W	6400W/6400W
Max. Input Voltage		1000Vd.c.	
Start-up Voltage		160Vd.c.	
MPPT Operating Voltage Range		140 ~ 980Vd.c.	
Max. Input Current		36Ad.c. (18/18)	
Max. Short-circuit Current		60Ad.c. (30/30)	
Number of MPPTs		2	
PV input number(Number of String Per MPPT)		2 (1/1)	
AC Input/Output			
Nominal Output Power	5000W	6000W	8000W
Max. Output Apparent Power	5500VA	6600VA	8800VA
Max. Input Apparent Power	11000VA	13200VA	17600VA
Nominal Output Current	7,6Aa.c.	9,1Aa.c.	12,2Aa.c.
Max. Output Current	8,4Aa.c.	10Aa.c.	13,4Aa.c.
Max. Input Current	16,7Aa.c.	20Aa.c.	26,7Aa.c.
Nominal Output Voltage	3/N/PE, 220/380Va.c., 230/400Va.c., 240/415Va.c.		
THDi	< 3%		

Technical Specifications

HYX-H5K/6K/8K-HT

Product Model	HYX-H5K-HT	HYX-H6K-HT	HYX-H8K-HT
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	5000VA	6000VA	8000VA
Max. Continues Output Apparent Power	5500VA	6600VA	8800VA
Peak Output Power	7500W; 10s	9000W; 10s	12000W; 10s
Nominal Output Current	7.6Aa.c.	9.1Aa.c.	12.2Aa.c.
Max. Peak Output Current	11.4Aa.c.	13.7Aa.c.	18.2Aa.c.
Switch Time	< 10ms		
Battery			
Battery Type	LiFePO4		
Battery Voltage Range	150 ~ 600Vd.c.		
Max. Charge/Discharge Current	40Ad.c.		
Max. Charge/Discharge Power	5500W	6600W	8800W
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	4000m		
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		

Technical Specifications

HYX-H10K/12K-HT

Product Model	HYX-H10K-HT	HYX-H12K-HT
PV Input		
Max. Array Power	20000W	24000W
Max. Input Power	6400W/(4800W/4800W)	6400W/(6400W/6400W)
Max. Input Voltage	1000Vd.c.	
Start-up Voltage	160Vd.c.	
MPPT Operating Voltage Range	140 ~ 980Vd.c.	
Max. Input Current	54Ad.c. (18/18 × 2)	
Max. Short-circuit Current	90Ad.c. (30/30 × 2)	
Number of MPPTs	2	
PV input number(Number of String Per MPPT)	3 (1/2)	
AC Input / Output		
Nominal Output Power	10000W	12000W
Max. Output Apparent Power	11000VA	13200VA
Max. Input Apparent Power	22000VA	26400VA
Nominal Output Current	15.2Aa.c.	18.2Aa.c.
Max. Output Current	16.7Aa.c.	20Aa.c.
Max. Input Current	33.4Aa.c.	40Aa.c.
Nominal Output Voltage	3/N/PE, 220/380Va.c., 230/400Va.c., 240/415Va.c.	
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	10000VA	12000VA
Max. Continues Output Apparent Power	11000VA	13200VA
Peak Output Power	15000W; 10s	15000W; 10s
Nominal Output Current	15.2Aa.c.	18.2Aa.c.
Max. Peak Output Current	22.8Aa.c.	22.8Aa.c.
Switch Time	< 10ms	
Battery		
Battery Type	LiFePO4	
Battery Voltage Range	150 ~ 600Vd.c.	
Max. Charge/Discharge Current	40Ad.c.	
Max. Charge/Discharge Power	11000W	13200W
Efficiency		
Max. Efficiency	98,60%	
European Weighted Efficiency	98,20%	
MPPT Efficiency	99,90%	
Battery Charge/ Discharge Efficiency	97,50%	

Technical Specifications

HYX-H10K/12K-HT

Product Model	HYX-H10K-HT	HYX-H12K-HT
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℃	
Relative Operating Humidity	0 ~ 100 %RH	
Max. Operating Altitude	4000m	
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	