

Hybrid Inverter

HYX-H3K/3K6/4K/

4K6/5K/6K/8K-HS

Version 1.3-2606

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
- 80~490V Wide Battery Voltage Range, 35A Fast Charge/Discharge
- 16A 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-H3K/3K6/4K/4K6-HS

Product Model	HYX-H3K-HS	HYX-H3K6-HS	HYX-H4K-HS	HYX-H4K6-HS
PV Input				
Max. Array Power	6000W	7200W	8000W	9200W
Max. Input Power	3000W/1800W	3600W/2160W	4000W/2400W	4600W/2760W
Max. Input Voltage			600Vd.c.	
Start-up Voltage			50Vd.c.	
MPPT Operating Voltage Range			80 ~ 560Vd.c.	
Max. Input Current			32Ad.c. (16/16)	
Max. Short-circuit Current			48Ad.c. (24/24)	
Number of MPPTs			2	
PV input number(Number of String Per MPPT)			2 (1/1)	
AC Input / Output				
Nominal Power	3000W	3600W	4000W	4600W
Max. Apparent Power	3300VA	4000VA	4400VA	4400VA
Nominal Current	13,6Aa.c.	16,3Aa.c.	18,1Aa.c.	20,9Aa.c.
Max. Current	15,0Aa.c.	18,0Aa.c.	20,0Aa.c.	23,0Aa.c.
Nominal Voltage			1/N/PE, 220/230/240Va.c.	
AC Voltage Range			154 ~ 276Va.c.	
THDi			< 3%	
Frequency			50/45 ~ 55Hz; 60/55 ~ 65Hz	
Adjustable Power Factor			0.8 leading...0.8 lagging	
DC Current Injection			< 0,5% In	

Technical Specifications

HYX-H3K/3K6/4K/4K6-HS

Product Model	HYX-H3K-HS	HYX-H3K6-HS	HYX-H4K-HS	HYX-H4K6-HS
Back-Up(AC Output)				
Nominal Output Power	3000VA	3600VA	4000VA	4600VA
Max. Continues Output Apparent Power	3300VA	4000VA	4400VA	4400VA
Peak Output Power	4500W; 10s	5400W; 10s	6000W; 10s	6900W; 10s
Max. Output Current	15,0Aa.c.	18,0Aa.c.	20,0Aa.c.	23,0Aa.c.
Switch Time	< 10ms			
Battery				
Battery Type	LiFePO4			
Battery Voltage Range	80 ~ 490Vd.c.			
Max. Charge/Discharge Current	35Ad.c.			
Max. Charge/Discharge Power	8000W			
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			
Protective Class for All Ports	I			
Overvoltage Category for All Ports	DC II, AC III			
Active Anti-islanding Method	General Electric Frequency Shift			
General Data				
Operating Temperature Range	-25 to + 60°C			
Relative Operating Humidity	0 ~ 100 %RV			
Max. Operating Altitude	4000m			
Cooling	Natural Cooling			
Display	LED/App/Web			
Communication	CAN/RS485/WIFI/4G/LAN			
Weight	20kg			
Dimensions (W × H × D)	522 × 416 × 177,6mm			
Degree of Protection	IP65			
Mounting	Wall Mounted			

Technical Specifications

HYX-H5K/6K/8K-HS

Product Model	HYX-H5K-HS	HYX-H6K-HS	HYX-H8K-HS
PV Input			
Max. Array Power	10000W	12000W	16000W
Maximaal ingangsvermogen	5000W/3000W	5000W/4600W	6400W/6400W
Max. Input Voltage	600Vd.c.		
Start-up Voltage	50Vd.c.		
MPPT Operating Voltage Range	80 ~ 560Vd.c.		
Max. Input Current	32Ad.c. (16/16)		
Max. Short-circuit Current	48Ad.c. (24/24)		
Number of MPPTs	2		
PV input number(Number of String Per MPPT)	2 (1/1)		
AC Input/Output			
Nominal Power	5000W	6000W	8.000W
Max. Apparent Power	5500VA	6600VA	8.800VA
Nominal Current	22,7Aa.c.	27,2Aa.c.	36,3Aa.c.
Max. Current	25,0Aa.c.	30,0Aa.c.	40,0Aa.c.
Nominal Voltage	1/N/PE, 220/230/240Va.c.		
AC Voltage Range	154 ~ 276Va.c.		
THDi	< 3%		
Frequency	50/45-55Hz; 60/55-65Hz		
Adjustable Power Factor	0.8 leading...0.8 lagging		
DC Current Injection	< 0,5% In		
Back-Up(AC Output)			
Nominal Output Power	5.000VA	6.000VA	8.000VA
Max. Continues Output Apparent Power	5.500VA	6.600VA	8.000VA
Peak Output Power	7.500W; 10s	9.000W; 10s	9.600W; 10s
Max. Output Current	25,0Aa.c.	30,0Aa.c.	36,3Aa.c.
Switch Time	< 10ms		
Battery			
Battery Type	LiFePO4		
Battery Voltage Range	80 ~ 490Vd.c.		
Max. Charge/Discharge Current	35A		
Max. Charge/Discharge Power	8.000W		
Efficiency			
Max. Efficiency	98,60%		
European Weighted Efficiency	98,20%		
MPPT Efficiency	99,90%		
Battery Charge/ Discharge Efficiency	97,50%		

Technical Specifications
HYX-H5K/6K/8K-HS

Product Model	HYX-H5K-HS	HYX-H6K-HS	HYX-H8K-HS
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-overspanningsbeveiliging		YES	
Grounded Fault Detection		YES	
Protective Class for All Ports		I	
Overvoltage Category for All Ports		DC II, AC III	
Active Anti-islanding Method		General Electric Frequency Shift	
General Data			
Operating Temperature Range		-25 to + 60°C	
Relative Operating Humidity		0 ~ 100 %RV	
Max. Operating Altitude		4000m	
Cooling		Natural Cooling	
Display		LED/App/Web	
Communication		CAN/RS485/WIFI/4G/LAN	
Weight		20kg	
Dimensions (W × H × D)		522 × 416 × 177,6mm	
Degree of Protection		IP65	
Mounting		Wall Mounted	