



# HYBRID INVERTER

HYX-H3K/3K6/4K/4K6/5K/6K/8K-HS

## Reliable

- Type II surge protection
- IP65,C4 salt spray design
- Support AFCI and RSD, ultimate peace of mind

## Efficient

- 160% PV oversizing, 110% overlock 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

Product Model	HYX-H3K-HS	HYX-H3K6-HS	HYX-H4K-HS	HYX-H4K6-HS	HYX-H5K-HS	HYX-H6K-HS	HYX-H8K-HS
<b>PV Input</b>							
Max. Array Power (W)	6,000	7,200	8,000	9,200	10,000	12,000	1,6000
Max. Input Power (W)	3,000 / 1,800	3,600 / 2,160	4,000 / 2,400	4,600 / 2,760	5,000 / 3,000	5,000 / 4,600	6,400 / 6,400
Max. Input Voltage (V)	600						
Start-up Voltage (V)	50						
Mppt Operating Voltage Range (V)	80 - 560						
Max. Input Current (A)	32 (16 / 16)						
Max. Short-circuit Current (A)	48 (24 / 24)						
Number of MPP Trackers	2						
Max. Input Number Per MPP Tracker	1 / 1						
<b>AC Input / Output</b>							
Nominal Power (W)	3,000	3,600	4,000	4,600	5,000	6,000	8,000
Max. Apparent Power (VA)	3,300	4,000	4,400	5,060	5,500	6,600	8,800
Nominal Current (A)	13.6	16.3	18.1	20.9	22.7	27.2	36.3
Max. Current (A)	15.0	18.0	20.0	23.0	25.0	30.0	40.0
Nominal Voltage (V)	1 / N / PE, 220 / 230 / 240						
AC Voltage Range (V)	154 - 276						
THDi	< 3%						
Frequency (Hz)	50 / 45-55; 60 / 55-65						
Adjustable Power Factor	0.8 leading...0.8 lagging						
DC Current Injection	< 0.5% In						
<b>Back-Up(AC Output)</b>							
Nominal Output Power (VA)	3,000	3,600	4,000	4,600	5,000	6,000	8,000
Max. Continues Output Apparent Power (VA)	3,300	4,000	4,400	5,060	5,500	6,600	8,000
Peak Output Power (W)	4,500; 10s	5,400; 10s	6,000; 10s	6,900; 10s	7,500; 10s	9,000; 10s	12,000; 10s
Max. Output Current (A)	15.0	18.0	20.0	23.0	25.0	30.0	36.3
Switch Time (ms)	< 10						
<b>Battery</b>							
Battery Type	LiFePO4						
Battery Voltage Range (V)	80 - 490						
Max. Charge/Discharge Current (A)	35						
Max. Charge/Discharge Power (W)	8,000						
<b>Efficiency</b>							
Max. Efficiency	98.60%						
European Weighted Efficiency	98.20%						
MPPT Efficiency	99.90%						
Battery Charge/ Discharge Efficiency	97.50%						
<b>Protection</b>							
DC Insulation Resistance Detection	Yes						
Residual Current Monitoring Unit	Yes						
DC Reverse Polarity Protection	Yes						
AC / DC Surge Arrester	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						
<b>General Data</b>							
Operating Temperature Range (°C)	-25 to + 60						
Relative Operating Humidity (RH)	0 ~ 100 %						
Max. Operating Altitude (m)	4,000						
Cooling	Natural Cooling						
Display	LED / App / Web						
Communication	CAN / RS485 / WIFI / 4G / LAN						
Weight (kg)	20						
Dimensions (W*H*D mm)	522*416*177.6						
Degree of Protection	IP65						
Mounting	Wall Mounted						

※ Design and specifications are subject to change without notice.

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