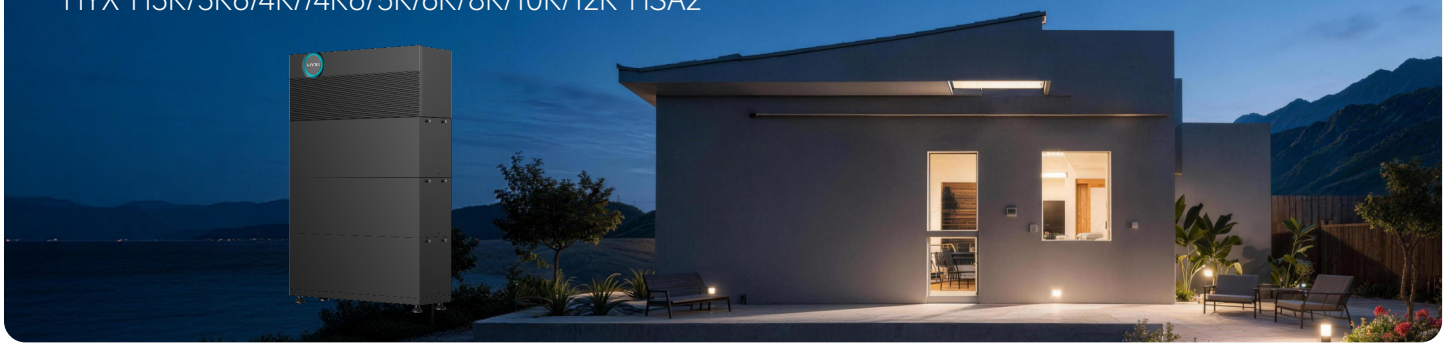
HYXI Aura All-In-One Storage System

HYX-H3K/3K6/4K//4K6/5K/6K/8K/10K/12K-HSA2

Version 2.1-202610

Design and specifications are subject to change without notice.



Advanced Performance

- 63A Maximum Bypass Current
- 10000 Life Cycles
- 0ms Switch Time
- 7/9kWh High-Capacity Battery

Intelligent Design

- Built-in Meter
- Plug & Play, 5-Minute Installation
- Flexible Stacking Expansion
- Backup Integrated

Intelligent Management

- Whole Home Backup
- VPP Ready
- Active Balancing Technology Supported
- AI Electricity Pricing Scheduling
- Integrating the ChatGPT-5x Model

Safe & Reliable

- 7-Layer Battery Protection
- Standard Battery Heating
- Automotive-Grade Manufacturing

Technical Specifications

HYX-H3K/3K6/4K/4K6/5K-HSA2

Product Model	HYX-H3K-HSA2	HYX-H3K6-HSA2	HYX-H4K-HSA2	HYX-H4K6-HSA2	HYX-H5K-HSA2
PV Input					
Max. PV Input Power	6000W	7200W	8000W	9200W	10000W
Max. PV Input Voltage	600Vd.c.				
MPPT Voltage Range	80 ~ 560Vd.c.				
Start-Up Voltage	50Vd.c.				
Max. PV Input Current	20/20Ad.c.				
Max. Input Short Circuit Current Isc	30/30Ad.c.				
No. of MPPT Trackers	2				
Number of String per MPPT Trackers	1				
Battery Output/Input					
Battery Type	Lithium-ion				
Battery Voltage Range	380 ~ 560Vd.c.				
Rated Voltage	420Vd.c.				
Max. Charge/Discharge Current	7.5Ad.c.	9.0Ad.c.	10.0Ad.c.	11.0Ad.c.	12.0Ad.c.
AC On-Grid Output/Input					
Nominal Output Power	3000W	3600W	4000W	4600W	5000W
Max. AC Output Apparent Power	3300VA	3960VA	4400VA	5060VA	5500VA
Max. Input Apparent Power	14490VA				
Rated AC Output Voltage/Range	220 or 230 or 240/183 ~ 276Va.c.				
Nominal AC Frequency/Range	50/45 ~ 55 or 60/55 ~ 65Hz				
Bypass	63A				

Technical Specifications

HYX-H3K/3K6/4K/4K6/5K-HSA2

Product Model	HYX-H3K-HSA2	HYX-H3K6-HSA2	HYX-H4K-HSA2	HYX-H4K6-HSA2	HYX-H5K-HSA2
Rated AC Output Current	13.6/13.0/12.5Aa.c.	16.4/15.7/15.0Aa.c.	18.2/17.4/16.7Aa.c.	20.9/20.0/19.2Aa.c.	22.7/21.7/20.8Aa.c.
Max. AC Output Current	15.0/14.3/13.8Aa.c.	18.0/17.2/16.5Aa.c.	20.0/19.1/18.3Aa.c.	23.0/22.0/21.1Aa.c.	25.0/23.9/22.9Aa.c.
Max. Input Current	63Aa.c.				
Power Factor Range	> 0.99/0.8 leading...0.8 lagging				
DC Current Injection	< 0.5%In				
THDi (Rated Power)	< 2%				
AC Off-Grid Output					
Grid Type	L/N/PE, 220 or 230 or 240 / 183-276Va.c.				
Nominal Frequency	50/45 ~ 55 or 60/55 ~ 65Hz				
Nominal Output Apparent Power	3000W	3600W	4000W	4600W	5000W
Max. Continuous Output Apparent Power	3300VA	3960VA	4400VA	5060VA	5500VA
Max. Peak Output Apparent Power	6000VA, 10s	7200VA, 10s	8000VA, 10s	9200VA, 10s	10000VA, 10s
Max. Output Current	15.0/14.3/13.8Aa.c.	18.0/17.2/16.5Aa.c.	20.0/19.1/18.3Aa.c.	23.0/22.0/21.1Aa.c.	25.0/23.9/22.9Aa.c.
Transfer Time	0ms				
THDi (Rated Power)	< 3%				
Efficiency					
Max. Efficiency	98.60%				
European Efficiency	98.20%				
MPPT Efficiency	99.90%				
Other Technical Specification					
Display	LED & APP				
Ingress Protection	IP66				
Operating Ambient Temperature Range	-30 to +60°C				
Humidity	5% ~ 95% (No Condensing)				
Altitude	4000m				
Dimensions (W × H × D)	795 × 319 × 258mm				
Weight of Inverter	< 38kg				
Cooling	Natural cooling				
Communication	Wi-Fi/4G/LAN/CAN/RS485				
Noise Emmision	<30 dB(A)				
Mounting Method	Floor-Mounted/Wall-Mounted				
Standard					
Safety	IEC62109-1/-2				
EMC	IEC62619, UN38.3, IEC/EN 61000-6-1, IEC/EN 61000-6-2, IEC/EN 61000-6-3, IEC/EN 61000-6-4				
Grid Connection Standard	VDE4105, IEC61727/62116, VDE0126, AS4777.2, CEI 0 21, EN50549-1, G98, G99, C10-11, UNE217002, NBR16149/ NBR16150				

Technical Specifications

HYX-H6K/8K/9K9/10K/12K-HSA2

Product Model	HYX-H6K-HSA2	HYX-H8K-HSA2	HYX-H9K9-HSA2	HYX-H10K-HSA2	HYX-H12K-HSA2
PV Input					
Max. PV Input Power	12000W	16000W	20000W	20000W	24000W
Max. PV Input Voltage	600Vd.c.				
MPPT Voltage Range	80 ~ 560Vd.c.				
Start-Up Voltage	50Vd.c.				
Max. PV Input Current	20/20Ad.c.	20/20/20Ad.c.		20/20/20/20Ad.c.	
Max. Input Short Circuit Current Isc	30/30Ad.c.	30/30/30Ad.c.		30/30/30/30Ad.c.	
No. of MPPT Trackers	2	3		4	
Number of String per MPPT Trackers	1				
Battery Output/Input					
Battery Type	Lithium-ion				
Battery Voltage Range	380 ~ 560Vd.c.				
Rated Voltage	420Vd.c.				
Max. Charge/Discharge Current	14.5Ad.c.	19.5Ad.c.	24.0Ad.c.	24.0Ad.c.	29.0Ad.c.
AC On-Grid Output/Input					
Nominal Output Power	6000W	8000W	9999W	10000W	12000W
Max. AC Output Apparent Power	6600VA	8800VA	9999VA	11000VA	13200VA
Max. Input Apparent Power	14490VA				
Rated AC Output Voltage/Range	220 or 230 or 240/183 ~ 276Va.c.				
Nominal AC Frequency/Range	50/45 ~ 55 or 60/55 ~ 65Hz				
Bypass	63A				
Rated AC Output Current	27.3/26.1/25.0Aa.c.	36.4/34.8/33.3Aa.c.	45.4/43.4/41.6Aa.c.	45.4/43.5/41.7Aa.c.	54.5/52.2/50.0Aa.c.
Max. AC Output Current	30.0/28.7/27.5Aa.c.	40.0/38.3/36.7Aa.c.	45.4/43.4/41.6Aa.c.	50.0/47.8/45.8Aa.c.	60/57.4/55.0Aa.c.
Max. Input Current	63Aa.c.				
Power Factor Range	> 0.99/0.8 leading...0.8 lagging				
DC Current Injection	< 0.5%In				
THDi (Rated Power)	< 2%				
AC Off-Grid Output					
Grid Type	L/N/PE, 220 or 230 or 240 / 183-276Va.c.				
Nominal Frequency	50/45 ~ 55 or 60/55 ~ 65Hz				
Nominal Output Apparent Power	6000W	8000W	9999W	10000W	12000W
Max. Continuous Output Apparent Power	6600VA	8800VA	9999VA	11000VA	13200VA
Max. Peak Output Apparent Power	12000VA, 10s	16000VA, 10s	16000VA, 10s	16000VA, 10s	16000VA, 10s
Max. Output Current	30.0/28.7/27.5Aa.c.	40.0/38.3/36.7Aa.c.	45.4/43.4/41.6Aa.c.	50.0/47.8/45.8Aa.c.	60/57.4/55.0Aa.c.
Transfer Time	0ms				
THDi (Rated Power)	< 3%				
Efficiency					
Max. Efficiency	98.60%				
European Efficiency	98.20%				
MPPT Efficiency	99.90%				
Other Technical Specification					
Display	LED & APP				
Ingress Protection	IP66				
Operating Ambient Temperature Range	-30 to +60°C				
Humidity	5% ~ 95% (No Condensing)				
Altitude	4000m				
Dimensions (W × H × D)	795 × 319 × 258mm				

Technical Specifications

HYX-H6K/8K/9K9/10K/12K-HSA2

Product Model	HYX-H6K-HSA2	HYX-H8K-HSA2	HYX-H9K9-HSA2	HYX-H10K-HSA2	HYX-H12K-HSA2
Weight of Inverter	< 38kg				
Cooling	Natural cooling	Smart cooling			
Communication	Wi-Fi/4G/LAN/CAN/RS485				
Noise Emmision	<30 dB(A)	<45 dB(A)			
Mounting Method	Floor-Mounted/Wall-Mounted				
Standard					
Safety	IEC62109-1/-2				
EMC	IEC62619, UN38.3, IEC/EN 61000-6-1, IEC/EN 61000-6-2, IEC/EN 61000-6-3, IEC/EN 61000-6-4				
Grid Connection Standard	VDE4105, IEC61727/62116, VDE0126, AS4777.2, CEI 0 21, EN50549-1, G98, G99, C10-11, UNE217002, NBR16149/ NBR16150				

Technical Specifications

Product Model	BAT-Q7	BAT-Q9
Battery type	LiFePO4	
Cell Capacity	314Ah	
Cycle Life	10000 (25°C±2°C,60%EOL)	
Total Energy Capacity	7.03kWh	9.04kWh
Usable Energy Capacity	6.7kWh	8.6kWh
Depth of Discharge	100%	
Rated. Charge/Discharge Power	3.5kW	4.6kW
Peak Charge/Discharge Power (10 seconds)	7.0kW	9.2kW
Battery Parameter (Low Voltage Side)		
Rated Voltage	22.4Vd.c.	28.8Vd.c.
Nominal Charge/Discharge Current	157Ad.c.	157Ad.c.
Max Charge/Discharge Current	157Ad.c.	157Ad.c.
Max Charge Voltage	25.2Vd.c.	32.4Vd.c.
Cut-off Voltage	18.9Vd.c.	24.3Vd.c.
For Use With Single Phase Inverters (High Voltage Side)		
DC-DC Voltage Range	380-560Vd.c.	
Nominal Voltage	420Vd.c.	
Nominal Charge/Discharge Current	8.33Ad.c.	10.95Ad.c.
Max Charge/Discharge Current	9.21Ad.c.	12.10Ad.c.
For Use With Three Phase Inverters (High Voltage Side)		
DC-DC Voltage Range	750-980Vd.c.	
Nominal Voltage	840Vd.c.	
Nominal Charge/Discharge Current	4.16Ad.c.	5.47Ad.c.
Max Charge/Discharge Current	4.67Ad.c.	6.13Ad.c.
General		
Weight	68kg	79kg
Dimensions (W × H × D) (±5mm)	795 × 269 × 292mm	
Storage Temperature Range	-20 ~ 60°C	
Operating Temperature Range	-20 ~ 55°C	
Relative Humidity Range	5% ~ 95%	
Max. Operating Altitude	4000m	
Cooling Concept	Natural cooling	
Ingress Protection	IP66	
Installation Method	Floor-mounted/Wall-mounted	
Number of Modules per Controller	1 ~ 6	
Safety	IEC 62619	
EMC	IEC 61000-6-1/2/3/4	
Transportation	UN38.3	