

HYXI Aura All-In-One Storage System

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

Version 1.4-202606 (Preliminary)
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-Minutes Installation
- Flexible Stacking Expansion
- Backup Integrated

Intelligent Management

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

Safe & Reliable

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

Technical Specifications

HYX-H(3-12)K-HSA2

Product Model	HYX-H3K-HSA2	HYX-H3K6-HSA2	HYX-H4K-HSA2	HYX-H4K6-HSA2	HYX-H5K-HSA2
DC					
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	2 × 20Ad.c.				
Max. Input Short Circuit Current I _{sc}	2 × 30Ad.c.				
No. of MPPT Trackers	2				
Number of String per MPPT Trackers	1				
AC On-Grid Output					
Nominal Output Power	3000W	3680W	4000W	4600W	5000W
Max. AC Output Apparent Power	3300VA	3680VA	4400VA	4600VA	5500VA
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	13.6/13.0/12.5Aa.c.	16.8/16.0/15.4Aa.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.	16.8/16.0/15.4Aa.c.	20.0/19.1/18.3Aa.c.	20.9/20.0/19.2Aa.c.	25.0/23.9/22.9Aa.c.
Power Factor Range	> 0.99/0.8 leading...0.8 lagging				
DC Current Injection	< 0.5%I _n				
THDi (Rated Power)	< 2%				
AC On-Grid Input					
Grid Type	220 or 230 or 240/183 ~ 276Va.c.				
Nominal Frequency	50/45 ~ 55 or 60/55 ~ 65Hz				
Nominal Output Apparent Power	3000VA	3600VA	4000VA	4600VA	5000VA
Max. Continuous Output Apparent Power	3000VA	3600VA	4400VA	4600VA	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.	16.8/16.0/15.4Aa.c.	20.0/19.1/18.3Aa.c.	20.9/20.0/19.2Aa.c.	25.0/23.9/22.9Aa.c.
Transfer Time	< 0ms				
THDi (Rated Power)	< 2%				

Technical Specifications

HYX-H(3-12)K-HSA2

Product Model	HYX-H3K-HSA2	HYX-H3K6-HSA2	HYX-H4K-HSA2	HYX-H4K6-HSA2	HYX-H5K-HSA2
Efficiency					
Max. Efficiency			90.46%		
European Efficiency			90.00%		
MPPT Efficiency			99.90%		
BAT Charged by PV Max. Efficiency			98.46%		
BAT Charged by AC Max. Efficiency			97.52%		
BAT Discharged to AC Max. Efficiency			97.02%		
Other Technical Specification					
Display			LED & APP		
Ingress Protection			IP66		
Operating Ambient Temperature Range			-30 to +60°C		
Humidity			5% ~ 95% (Condensing)		
Altitude			4000m		
Dimensions (W × H × D)			795 × 315 × 260mm		
Weight of Inverter			< 38kg		
Cooling			Natural Cooling		
Communication			Wi-Fi/4G/LAN/CAN/RS485		
Noise Emmision			<30 dB(A)		
Mounting Method			Floor/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-H(3-12)K-HSA2

Product Model	HYX-H6K-HSA2	HYX-H8K-HSA2	HYX-H9K9-HSA2	HYX-H10K-HSA2	HYX-H12K-HSA2
DC					
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	2 × 20Ad.c.	3 × 20Ad.c.	4 × 20Ad.c.	4 × 20Ad.c.	4 × 20Ad.c.
Max. Input Short Circuit Current I _{sc}	2 × 30Ad.c.	3 × 30Ad.c.	4 × 30Ad.c.	4 × 30Ad.c.	4 × 30Ad.c.
No. of MPPT Trackers	2	3	4	4	4
Number of String per MPPT Trackers	1				
AC On-Grid Output					
Nominal Output Power	6000W	8000W	9999W	10000W	12000W
Max. AC Output Apparent Power	6600VA	8800VA	9999VA	11000VA	12000VA
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.	45.4/43.5/41.7Aa.c.	45.4/43.5/41.7Aa.c.	54.6/52.2/50.0Aa.c.
Max. AC Output Current	30.0/28.7/27.5Aa.c.	40.0/38.3/36.7Aa.c.	45.4/43.5/41.7Aa.c.	50.0/47.9/45.9Aa.c.	54.6/52.2/50.0Aa.c.
Power Factor Range	> 0.99/0.8 leading...0.8 lagging				
DC Current Injection	< 0.5%I _n				
THDi (Rated Power)	< 2%				
AC On-Grid Input					
Grid Type	220 or 230 or 240/183 ~ 276Va.c.				
Nominal Frequency	50/45 ~ 55 or 60/55 ~ 65Hz				
Nominal Output Apparent Power	6000VA	8000VA	9999VA	10000VA	12000VA
Max. Continuous Output Apparent Power	6000VA	8000VA	9999VA	10000VA	12000VA
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.	45.4/43.5/41.7Aa.c.	50.0/47.9/45.9Aa.c.	54.6/52.2/50.0Aa.c.
Transfer Time	< 0ms				
THDi (Rated Power)	< 2%				
Efficiency					
Max. Efficiency	90.46%				
European Efficiency	90.00%				
MPPT Efficiency	99.90%				
BAT Charged by PV Max. Efficiency	98.46%				
BAT Charged by AC Max. Efficiency	97.52%				
BAT Discharged to AC Max. Efficiency	97.02%				
Other Technical Specification					
Display	LED & APP				
Ingress Protection	IP66				
Operating Ambient Temperature Range	-30 to +60°C				
Humidity	5% ~ 95% (Condensing)				
Altitude	4000m				
Dimensions (W × H × D)	795 × 315 × 260mm				
Weight of Inverter	< 38kg				
Cooling	Natural Cooling	Smart Cooling			
Communication	Wi-Fi/4G/LAN/CAN/RS485				
Noise Emmision	< 30dB(A)	< 45dB(A)			
Mounting Method	Floor/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 Data		
Battery type	LiFePO4	
Cell Capacity	314Ah	
Cycle Life	10000	
Total Energy Capacity	7.03kWh	9.04kWh
Usable Energy Capacity	6.82kWh	8.77kWh
Depth of Discharge	100%	
Max. Charge / Discharge Power	3.5kW	4.6kW
Peak Charge / Discharge Power (10 seconds)	7.0kW	9.2kW
Max. Output Current	9.3A	12A
Weight	65kg	76kg
Dimensions (W × H × D)	795 × 269 × 269mm	
Storage Temperature Range	-25 ~ 60°C	
Operating Temperature Range	-20 ~ 55°C	
Relative Humidity Range	5% ~ 95%	
Max. Operating Altitude	4000m	
Cooling	Natural Cooling	
System ingress protection rating	IP66	
Installation method	Floor standing/Wall-mounted	
Number of modules per controller	1 ~ 6	

Preliminary