

HYXI Aura All-In-One Storage System

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

Version 1.9-2608 (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
PV Input					
Max. PV Input Power	6000W (3000W/3000W)	7200W (3600W/3600W)	8000W (4000/4000W)	9200W (4600W/4600W)	10000W (5000W/5000W)
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					
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				
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%				

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
AC Off-Grid Input					
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	3000VA	3600VA	4000VA	4600VA	5000VA
Max. Continuous Output Apparent Power	3000VA	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.
Switch Time	0ms				
THDi (Rated Power)	< 3%				
Efficiency					
Max. Efficiency	98.60%				
European Efficiency	98.20%				
MPPT Efficiency	99.90%				
BAT Charged by AC Max. Efficiency	97.70%				
BAT Discharged to AC Max. Efficiency	97.70%				
Other Technical Specification					
Display	LED & APP				
Ingress Protection	IP66				
Operating Ambient Temperature Range	-30 to +60℃				
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-H(3-12)K-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 (6000W/6000W)	16000W (5333W/5333W/5333W)	20000W (5000W/5000W/ 5000W/5000W)	20000W (5000W/5000W/ 5000W/5000W)	24000W (6000W/6000W/ 6000W/6000W)
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.	20/20/20/20Ad.c.	20/20/20/20Ad.c.
Max. Input Short Circuit Current Isc	30/30Ad.c.	30/30/30Ad.c.	30/30/30/30Ad.c.	30/30/30/30Ad.c.	30/30/30/30Ad.c.
No. of MPPT Trackers	2	3	4	4	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					
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 Input					
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	6000VA	8000VA	9999VA	10000VA	12000VA
Max. Continuous Output Apparent Power	6000VA	8000VA	9999VA	10000VA	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.
Switch Time	0ms				
THDi (Rated Power)	< 3%				
Efficiency					
Max. Efficiency	98.60%				
European Efficiency	98.20%				
MPPT Efficiency	99.90%				
BAT Charged by AC Max. Efficiency	97.70%				
BAT Discharged to AC Max. Efficiency	97.70%				
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	Smart Cooling			
Communication	Wi-Fi/4G/LAN/CAN/RS485				
Noise Emmision	< 30dB(A)	< 45dB(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 Data			
Battery Type	LiFePO4		
Cell Capacity	314Ah		
Cycle Life	10000		
Total Energy Capacity	7.03kWh		9.04kWh
Usable Energy Capacity	6.7kWh		8.6kWh
Depth of Discharge	100%		
Max. Charge/Discharge Power	3.5kW		4.6kW
Rated Charge/Discharge Power	3.5kW		4.6kW
Peak Charge/Discharge Power (10 seconds)	7.0kW		9.2kW
Max. Output Current	9.3A		12A
Weight	68kg		79kg
Dimensions (W × H × D)	795 × 269 × 292mm		
Storage Temperature Range	-25 ~ +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		

Product Model	BAT-Q-BC	
Battery Data		
Operating Voltage Range (Single Phase)	380 ~ 560Vd.c.	
Rated Voltage (Single Phase)	420Vd.c.	
Operating Voltage Range (Three Phase)	750 ~ 980Vd.c.	
Rated Voltage (Three Phase)	840Vd.c.	
Weight	<15kg	
Dimensions (W × H × D)	795 × 155 × 239mm	
Compatible Battery	Q7/Q9 Series Battery	
Communication	CAN	