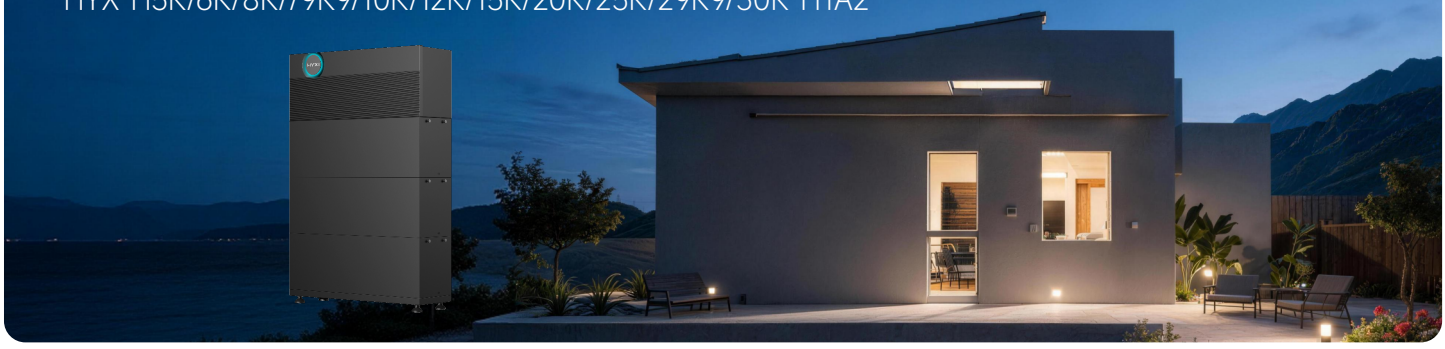
HYXI Aura All-In-One Storage System

HYX-H5K/6K/8K//9K9/10K/12K/15K/20K/25K/29K9/30K-HTA2

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-H5K/6K/8K/9K9/10K/12K-HTA2

Product Model	HYX-H5K-HSA2	HYX-H6K-HSA2	HYX-H8K-HSA2	HYX-H9K9-HSA2	HYX-H10K-HSA2	HYX-H12K-HSA2
PV Input						
Max. PV Input Power	10000W	12000W	160000W	20000W	20000W	20000W
Max. PV Input Voltage	1100Vd.c.					
MPPT Voltage Range	140 ~ 1000Vd.c.					
Start-Up Voltage	160Vd.c.					
Max. PV Input Current	20/20Ad.c.				20/20/20Ad.c.	
Max. Input Short Circuit Current Isc	30/30Ad.c.				30/30/30Ad.c.	
No. of MPPT Trackers	2				3	
Number of String per MPPT Trackers	1					
Battery Output/Input						
Battery Type	Lithium-ion					
Battery Voltage Range	750 ~ 980Vd.c.					
Rated Voltage	840Vd.c.					
Max. Charge/Discharge Current	6.0Ad.c.	7.5Ad.c.	10.0Ad.c.	12.0Ad.c.	12.0Ad.c.	14.5Ad.c.
AC On-Grid Output/Input						
Nominal Output Power	5000W	6000W	8000W	9999W	10000W	12000W
Max. AC Output Apparent Power	5500VA	6600VA	8800VA	9999VA	11000VA	13200VA
Max. Input Apparent Power	43470VA					
Rated AC Output Voltage/Range	3/N/PE, 220/380, 230/400, 240/415,304 ~ 476Va.c.					
Nominal AC Frequency/Range	50/45 ~ 55 or 60/55 ~ 65Hz					
Bypass	63A					

Technical Specifications

HYX-H5K/6K/8K/9K9/10K/12K-HTA2

Product Model	HYX-H5K-HSA2	HYX-H6K-HSA2	HYX-H8K-HSA2	HYX-H9K9-HSA2	HYX-H10K-HSA2	HYX-H12K-HSA2
Rated AC Output Current	7.6/7.2/6.9Aa.c.	9.1/8.7/8.3Aa.c.	12.2/11.6/11.1Aa.c.	15.1/14.4/13.8Aa.c.	15.2/14.5/13.9Aa.c.	18.2/17.4/16.7Aa.c.
Max. AC Output Current	8.4/8.0/7.6Aa.c.	10.0/9.6/9.2Aa.c.	13.3/12.8/12.2Aa.c.	15.1/14.4/13.8Aa.c.	16.7/15.9/15.3Aa.c.	20.0/19.1/18.3Aa.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	3/N/PE, 220/380, 230/400, 240/415,304 ~ 476Va.c.					
Nominal Frequency	50/45 ~ 55 or 60/55 ~ 65Hz					
Nominal Output Apparent Power	5000W	6000W	8000W	9999W	10000W	12000W
Max. Continuous Output Apparent Power	5500VA	6600VA	8800VA	9999VA	11000VA	13200VA
Max. Peak Output Apparent Power	10000VA, 10s	12000VA, 10s	16000VA, 10s	20000VA, 10s	20000VA, 10s	24000VA, 10s
Max. Output Current	8.3/8.0/7.6Aa.c.	10.0/9.6/9.2Aa.c.	13.3/12.8/12.2Aa.c.	15.1/14.4/13.8Aa.c.	16.7/15.9/15.3Aa.c.	20.0/19.1/18.3Aa.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					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

HYX-H15K/20K/25K/29K9/30K-HTA2

Product Model	HYX-H15K-HSA2	HYX-H20K-HSA2	HYX-H25K-HSA2	HYX-H29K9-HSA2	HYX-H30K-HSA2
PV Input					
Max. PV Input Power	30000W	36000W	45000W	54000W	54000W
Max. PV Input Voltage	1100Vd.c.				
MPPT Voltage Range	140 ~ 1000Vd.c.				
Start-Up Voltage	160Vd.c.				
Max. PV Input Current	20/20/20Ad.c.	20/20/20/20Ad.c.			
Max. Input Short Circuit Current Isc	30/30/30Ad.c.	30/30/30/30Ad.c.			
No. of MPPT Trackers	3	4			
Number of String per MPPT Trackers	1				
Battery Output/Input					
Battery Type	Lithium-ion				
Battery Voltage Range	750 ~ 980Vd.c.				
Rated Voltage	840Vd.c.				
Max. Charge/Discharge Current	18.0Ad.c.	24.0Ad.c.	30.0Ad.c.	36.0Ad.c.	36.0Ad.c.
AC On-Grid Output/Input					
Nominal Output Power	15000W	20000W	25000W	29999W	30000W
Max. AC Output Apparent Power	16500VA	22000VA	27500VA	29999VA	33000VA
Max. Input Apparent Power	43470VA				
Rated AC Output Voltage/Range	3/N/PE, 220/380, 230/400, 240/415,304 ~ 476Va.c.				
Nominal AC Frequency/Range	50/45 ~ 55 or 60/55 ~ 65Hz				
Bypass	63A				
Rated AC Output Current	22.7/21.7/20.8Aa.c.	30.3/29.0/27.8Aa.c.	37.9/36.2/34.7Aa.c.	45.4/43.4/41.6Aa.c.	45.5/43.5/41.7Aa.c.
Max. AC Output Current	25.0/23.9/22.9Aa.c.	33.3/31.9/30.6Aa.c.	41.7/39.9/38.2Aa.c.	45.4/43.4/41.6Aa.c.	50.0/47.8/45.8Aa.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	3/N/PE, 220/380, 230/400, 240/415,304 ~ 476Va.c.				
Nominal Frequency	50/45 ~ 55 or 60/55 ~ 65Hz				
Nominal Output Apparent Power	15000W	20000W	25000W	29999W	30000W
Max. Continuous Output Apparent Power	16500VA	22000VA	27500VA	29999VA	33000VA
Max. Peak Output Apparent Power	30000VA, 10s	30000VA, 10s	30000VA, 10s	36000VA, 10s	36000VA, 10s
Max. Output Current	25.0/23.9/22.9Aa.c.	33.3/31.9/30.6Aa.c.	41.7/39.9/38.2Aa.c.	45.4/43.4/41.6Aa.c.	50.0/47.8/45.8Aa.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-H15K/20K/25K/29K9/30K-HTA2

Product Model	HYX-H15K-HSA2	HYX-H20K-HSA2	HYX-H25K-HSA2	HYX-H29K9-HSA2	HYX-H30K-HSA2
Weight of Inverter	< 38kg				
Cooling	Smart cooling				
Communication	Wi-Fi/4G/LAN/CAN/RS485				
Noise Emmision	<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	