

ALL-IN-ONE STORAGE SYSTEM HYX-H(3-10)K-HSA2



Advanced Performance

- 63A maximum bypass current
- 10000 cycles battery
- Switching time less than 4ms
- 6/9 kWh High-capacity battery

Intelligent Design

- Built-in metering
- Plug and Play, 5-minutes installation
- Flexible stacking expansion
- Backup Integrated

Intelligent Management

- Whole home back-up
- VPP ready
- SG-ready heat pump supported
- Active balancing technology supported
- AI electricity pricing scheduling

HYX-H(3-10)K-HSA2

Technical Specifications

Product Model	HYX-H3K-HSA2	HYX-H3K6-HSA2	HYX-H4K-HSA2
DC			
Max. PV Input Power	6000W (3000W/3000)W	7200W (3600W/3600W)	8000W (4000W/4000W)
Max. PV Input Voltage		600V	
MPPT Voltage Range		80 – 560V	
Start-up Voltage		50V	
Max. PV Input Current		20×2A	
Max. Input Short Circuit Current Isc		30×2A	
No. of MPP Trackers		2	
Number of String Per MPP Trackers		1	
AC On-grid Output			
Nominal Output Power	3000W	3600W	4000W
Max. AC Output Apparent Power	3300VA	3960VA	4400VA
Rated AC Output Voltage/Range		220 or 230 or 240 / 183-276V	
Nominal AC Frequency/Range		50/45-55 or 60/55-65Hz	
Bypass		63A	
Rated AC Output Current	13.6 / 13.0 / 12.5A	16.4 / 15.7 / 15.0A	18.2 / 17.4 / 16.7A
Max. AC Output Current	15.0 / 14.3 / 13.8A	18.0 / 17.2 / 16.5A	20.0 / 19.1 / 18.3A
Power Factor Range		>0.99 / 0.8 leading to 0.8 lagging	
DC Current Injection		<0.5% In	
THDi (Rated Power)		<2%	
AC On-grid Input			
Grid Type		220 or 230 or 240 / 183-276V	
Nominal Frequency		50/45-55 or 60/55-65Hz	
Nominal Output Apparent Power	3000VA	3600VA	4000VA
Max. Continuous Output Apparent Power	3300VA	3960VA	4400VA
Max. Peak Output Apparent Power	6000VA, 10s	7200VA, 10s	8000VA, 10s
Max. Output Current	15.0 / 14.3 / 13.8A	18.0 / 17.2 / 16.5A	20.0 / 19.1 / 18.3A
Transfer Time		< 4ms	
THDi (Rated Power)		<2%	
Battery Data			
Battery Chemistry		LiFePO4	
Battery Module Model		HYX-E60B-HA / HYX-E90B-HA	
Battery Nominal Voltage Per Module		430V/DC	
Battery Nominal Energy		6.03kWh / 9.04kWh	
INV Max. Battery Current		50	
Number of Battery		1~6	
Max. Charge/Discharge Power Per Module		3000/4600W	
Battery Cycle Life		10000 (70%SOH)	
Operating Ambient Temperature Range		-20 to +50°C	
Efficiency			
Max. Efficiency		98.6%	
European Efficiency		98.2%	
MPPT Efficiency		99.9%	
BAT Charged by PV Max. Efficiency		97.7%	
BAT Charged/Discharged to AC Max. Efficiency		97.7%	
Other Technical Specification			
Display		LED & APP	
Ingress Protection		IP66	
Operating Ambient Temperature Range		-30 to +60°C	
Humidity		0% ~ 100% (Condensing)	
Altitude		4000m	
Dimensions (W*H*D)		795*315*260mm	
Weight of Inverter		< 38kg	
Cooling		Smart Cooling	
Communication		WiFi / 4G / LAN / CAN / Rs485	
Noise Emmission		<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	

HYX-H(3-10)K-HSA2

Technical Specifications

Product Model	HYX-H4K6-HSA2	HYX-H5K-HSA2
DC		
Max. PV Input Power	9200W (4600W/4600W)	10000W (5000W/5000W)
Max. PV Input Voltage		600V
MPPT Voltage Range		80 – 560V
Start-up Voltage		50V
Max. PV Input Current		20×2A
Max. Input Short Circuit Current Isc		30×2A
No. of MPP Trackers		2
Number of String Per MPP Trackers		1
AC On-grid Output		
Nominal Output Power	4600W	5000W
Max. AC Output Apparent Power	5060VA	5500VA
Rated AC Output Voltage/Range		220 or 230 or 240 / 183-276V
Nominal AC Frequency/Range		50/45-55 or 60/55-65Hz
Bypass		63A
Rated AC Output Current	20.9 / 20.0 / 19.2A	22.7 / 21.7 / 20.8A
Max. AC Output Current	23.0 / 22.0 / 21.1A	25.0 / 23.9 / 22.9A
Power Factor Range		>0.99 / 0.8 leading to 0.8 lagging
DC Current Injection		<0.5% In
THDi (Rated Power)		<2%
AC On-grid Input		
Grid Type		220 or 230 or 240 / 183-276V
Nominal Frequency		50/45-55 or 60/55-65Hz
Nominal Output Apparent Power	4600VA	5000VA
Max. Continuous Output Apparent Power	5060VA	5500VA
Max. Peak Output Apparent Power	9200VA, 10s	10000VA, 10s
Max. Output Current	23.0 / 22.0 / 21.1A	25.0 / 23.9 / 22.9A
Transfer Time		< 4ms
THDi (Rated Power)		<2%
Battery Data		
Battery Chemistry		LiFePO4
Battery Module Model		HYX-E60B-HA / HYX-E90B-HA
Battery Nominal Voltage Per Module		430V/DC
Battery Nominal Energy		6.03kWh / 9.04kWh
INV Max. Battery Current		50
Number of Battery		1~6
Max. Charge/Discharge Power Per Module		3000/4600W
Battery Cycle Life		10000 (70%SOH)
Operating Ambient Temperature Range		-20 to +50°C
Efficiency		
Max. Efficiency		98.6%
European Efficiency		98.2%
MPPT Efficiency		99.9%
BAT Charged by PV Max. Efficiency		97.7%
BAT Charged/Discharged to AC Max. Efficiency		97.7%
Other Technical Specification		
Display		LED & APP
Ingress Protection		IP66
Operating Ambient Temperature Range		-30 to +60°C
Humidity		0% ~ 100% (Condensing)
Altitude		4000m
Dimensions (W*H*D)		795*315*260mm
Weight of Inverter		< 38kg
Cooling		Smart Cooling
Communication		WiFi / 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

HYX-H(3-10)K-HSA2

Technical Specifications

Product Model	HYX-H6K-HSA2	HYX-H8K-HSA2	HYX-H10K-HSA2
DC			
Max. PV Input Power	12000W (6000W/6000W)	16000W (5333W/5333W/5333W)	20000W (5000W/5000W/5000W/5000W)
Max. PV Input Voltage		600V	
MPPT Voltage Range		80 – 560V	
Start-up Voltage		50V	
Max. PV Input Current	20×2A	20×3A	20×4A
Max. Input Short Circuit Current Isc	30×2A	30×3A	30×4A
No. of MPP Trackers	2	3	4
Number of String Per MPP Trackers		1	
AC On-grid Output			
Nominal Output Power	6000W	8000W	10000W
Max. AC Output Apparent Power	6600VA	8800VA	11000VA
Rated AC Output Voltage/Range		220 or 230 or 240 / 183-276V	
Nominal AC Frequency/Range		50/45-55 or 60/55-65Hz	
Bypass		63A	
Rated AC Output Current	27.3 / 26.1 / 25.0A	36.4 / 34.8 / 33.3A	45.4 / 43.5 / 41.7A
Max. AC Output Current	30.0 / 28.7 / 27.5A	40.0 / 38.3 / 36.7A	50.0 / 47.9 / 45.9A
Power Factor Range		>0.99 / 0.8 leading to 0.8 lagging	
DC Current Injection		<0.5% In	
THDi (Rated Power)		<2%	
AC On-grid Input			
Grid Type		220 or 230 or 240 / 183-276V	
Nominal Frequency		50/45-55 or 60/55-65Hz	
Nominal Output Apparent Power	6000VA	8000VA	10000W
Max. Continuous Output Apparent Power	6600VA	8800VA	11000VA
Max. Peak Output Apparent Power	12000VA, 10s	16000VA, 10s	16000VA, 10s
Max. Output Current	30.0 / 28.7 / 27.5A	40.0 / 38.3 / 36.7A	50.0 / 47.9 / 45.9A
Transfer Time		< 4ms	
THDi (Rated Power)		<2%	
Battery Data			
Battery Chemistry		LiFePO4	
Battery Module Model		HYX-E60B-HA / HYX-E90B-HA	
Battery Nominal Voltage Per Module		430V/DC	
Battery Nominal Energy		6.03kWh / 9.04kWh	
INV Max. Battery Current		50	
Number of Battery		1-6	
Max. Charge/Discharge Power Per Module		3000/4600W	
Battery Cycle Life		10000 (70%SOH)	
Operating Ambient Temperature Range		-20 to +50°C	
Efficiency			
Max. Efficiency		98.6%	
European Efficiency		98.2%	
MPPT Efficiency		99.9%	
BAT Charged by PV Max. Efficiency		97.7%	
BAT Charged/Discharged to AC Max. Efficiency		97.7%	
Other Technical Specification			
Display		LED & APP	
Ingress Protection		IP66	
Operating Ambient Temperature Range		-30 to +60°C	
Humidity		0% ~ 100% (Condensing)	
Altitude		4000m	
Dimensions (W*H*D)		795*315*260mm	
Weight of Inverter		< 38kg	
Cooling		Smart Cooling	
Communication		WiFi / 4G / LAN / CAN / Rs485	
Noise Emmission		<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	
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