

Low-Voltage Single-Phase Hybrid Inverter

HYX-H6K-LS
HYX-H8K-LS

Version 1.3-2604

Design and specifications are subject to change without notice



High Performance

- 90-280V Wide Voltage Range of Grid
- Excellent High-Temperature Performance
- Max. 18A MPPT Current
- Max. Charging / Discharging Current of 165A
- 60V Start-up MPPT Voltage



Flexible Solution

- Support Diesel Generator
- Max. 6 pcs Parallel for On-Grid and Off-Grid Operation
- Dual AC Output With Smart Load Management
- Compatible With Multiple Battery Brands



High Quality

- IP66 Protection Level
- 5-Year Warranty
- Type II DC and AC Surge Protection



Easy Installation

- Lightweight 16kg
- Built-in Wi-Fi
- Single-Person Installation
- Get It up on the Wall in 1 Minute
- Built-in Metering

Technical Specifications

HYX-H6K/8K-LS

Model	HYX-H6K-LS	HYX-H8K-LS
Battery Input Data		
Battery Type	Lithium-ion or Lead-acid	
Rated Battery Voltage	48V	
Battery Voltage Range	40 ~ 60V	
Max. Charging Current	125A	165A
Max. Discharging Current	125A	165A
Charging Strategy for Li-ion Battery	Self-adaption to BMS	
PV Input Data		
Max. MPPT Input Power	12000W	
Max. PV Input Voltage	500V	
Rated PV Input Voltage	370V	
Start-up Voltage	60V	
MPPT Voltage Range	60 ~ 450V	
No. of MPPT/ No. of Strings per MPPT	2 / 1+1	
Max. PV Input Current per MPPT	18+18	
Max. Short Circuit Current per MPPT	27+27	
AC Input Data (Grid and Generator)		
Rated AC Input Voltage	220 / 230 / 240V	
Rated AC Input Voltage Range	90 ~ 280V	
Rated Input Frequency	50 / 60 Hz	
Max AC Input Current	40A	50A
Total Current Harmonic Distortion (THDi)	<3%	

Model	HYX-H6K-LS	HYX-H8K-LS
Backup Data		
Rated Output Power	6000W	8000W
Rated AC Output Current	27A	35A
Rated Output Frequency	50 / 60Hz	
Peak Power	1.1 times of rated power, 60s; 1.5 times of rated power, 10s; 2 times of rated power, 5s; more than 2 times of rated power, 100ms	
Switch Time	20ms	
Total Current Harmonic Distortion (THDi)	<3%	
Efficiency		
Max. Efficiency	97.0%	
MPPT Efficiency	99.9%	
Protection		
Integrated Protections	DC Polarity Reverse Connection Protection, AC Output Overcurrent Protection, Thermal Protection, AC Output Overvoltage Protection, AC Output Short Circuit Protection, DC Component Monitoring, Overvoltage Load Drop Protection, Power Network Monitoring, Earth Fault Detection	
Surge Protection Level	Type II (DC), Type II (AC)	
Over Voltage Category	OVC II (DC), OVC III (AC)	
General Data		
Operating Temperature Range	-40~+60°C (> 45°C Derating)	
Dimensions (W*H*D)	430*350*177.8mm	
Weight	16kg	
Topology	Non-Isolated	
Cooling	Intelligent air cooling	
Max. Operating Altitude	3000m	
Ingress Protection	IP66	
Communication	Rs485 / CAN / Dry contact / External battery NTC / Parallel communication / Wi-Fi (Built-in)	
Warranty	5 Years	
Safety / EMC Standard	IEC 62109-1 / -2, EN61000-6-1:2019, EN61000-6-3:2021, EN61000-3-11:2019, EN61000-3-12:2011	
Efficiency Standard	IEC 61683:1999	