

Low-Voltage Single-Phase Hybrid Inverter

HYX-H6/8/10K-LS

Version 1.4-2609
Design and specifications are subject to change without notice



High Performance

- 60 ~ 450V Wide Voltage Range of Grid
- Excellent High-Temperature Performance
- Max. 20A MPPT Current
- Max. Charging/Discharging Current of 165A
- 70V Start-Up MPPT Voltage



Flexible Solution

- Support Diesel Generator
- Max. 6pcs 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/10K-LS

Model	HYX-H6K-LS	HYX-H8K-LS	HYX-H10K-LS
Battery Data			
Cell Type	Lithium-ion or Lead-acid		
Rated Battery Voltage	48Vd.c.		
Battery Voltage Range	40 ~ 60Vd.c.		
Max. Charging/Discharging Current	125/125Ad.c.	165/165Ad.c.	165/165Ad.c.
Forced Wake-up by PV	YES		
PV Input Data			
Max. MPPT Input Power	12000W	15000W	15000W
Max. PV Input Voltage	500Vd.c.		
Rated PV Input Voltage	370Vd.c.		
Start-Up Voltage	70Vd.c.		
MPPT Operating Voltage Range	60 ~ 450Vd.c.		
Number of MPPT / Strings per MPPT	2 / 1+1		
Max. PV Input Current per MPPT	20+20		
Max. Short-Circuit Current per MPPT	27+27		
AC Input/Output Data			
Rated AC Output Power	6000W	8000W	10000W
Max. Output Apparent Power	6000VA	8000VA	10000VA
Rated AC Output Current	27.3/26.1/25.0Aa.c.	36.4/34.8/33.4Aa.c.	45.5/43.5/41.7Aa.c.

Technical Specifications

HYX-H6K/8K/10K-LS

Model	HYX-H6K-LS	HYX-H8K-LS	HYX-H10K-LS
AC Input/Output Data			
Rated Grid Voltage	220/230/240Va.c.±5%		
Rated AC Input Voltage Range	90 ~ 280Va.c.		
Rated Frequency	50/60Hz		
Rated Frequency Range	40 ~ 65Hz		
Max. Input/Output Current	40/40Aa.c.	50/50Aa.c.	50/50Aa.c.
THDi	<3%		
Generator Data			
Rated GEN Voltage	230Va.c.		
Rated GEN Input Current	40Aa.c.		
Rated GEN Input Power	9200W		
Back-Up (AC Output)			
Rated Output Power	6000W	8000W	10000W
Max. Output Apparent Power	6000VA	8000VA	10000VA
Rated Output Current	27.3/26.1/25.0Aa.c.	36.4/34.8/33.4Aa.c.	45.5/43.5/41.7Aa.c.
Rated Output Voltage	220/230/240Va.c.±5%		
Rated Output Frequency	50/60Hz±0.1%		
Peak Power	1min @101 ~ 110%; 10s @110% ~ 150%; 5s @150% ~ 200%; 100ms @>200%		
Switch Time	4 ~ 6ms for computer equipments, 20ms for household equipments		
THDu	<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		
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)		
Relative Operating Humidity Range	0 ~ 100%RH		
Dimensions (W × H × D)	430 × 350 × 177.8mm		
Weight	15.5kg		
Topology	Non-isolated		
Cooling Concept	Smart air cooling		
Max. Operating Altitude	≤3000m		
Ingress Protection	IP66		
Communication Interface	RS485 / CAN / Dry contact / External battery NTC / Parallel communication / Wi-Fi (Built-in)		
Display	LED display / Touchable display		
Warranty	5 years		
Standard			
Safety Standard	IEC 62109-1:2010, EN 62109-1:2010, IEC 62109-2:2011, EN 62109-2:2011		
EMC Standard	EN IEC 61000-6-1:2019, EN IEC 61000-6-3:2021, EN IEC 61000-3-11:2019, EN61000-3-12:2011		
Efficiency Standard	IEC 61683:1999		