

Hybrid Inverter HYX-H12K-LS

Version 1.2-2602

Design and specifications are subject to change without notice



- Quick 230A Charging and Discharging Reduce Wait Times, Enhancing Efficiency
- Battery Forced Wake-Up During Lower Improved Stability and Extended Generation



- Easily Expandable with Paralleling Capabilities for Diverse Scenarios
- Supports 2x the Transient Overload for Greater Reliability



- Remote Monitoring for Convenient Operation



- IP66 Dust Proof and Waterproof Design Ensures Long Equipment Life

Technical Specifications

HYX-H12K-LS

Product Model	HYX-H12K-LS
Battery Data	
Battery Type	Lithium-ion & Lead-acid
Rated Battery Voltage	48V
Battery Voltage Range	40~60V
Max. Charge/Discharge Current	230 / 230A
Forced Wake-up by PV	Yes
PV Input	
Max. MPPT Input Power	18000W
Max. Input Voltage	500V
Rated Input Voltage	370V
MPPT Voltage Range	100~425V
No. of MPPT/ Strings Per MPPT	3 / 2+1+1
Max Input Current Per MPPT	28 / 16 / 16
Max. Short Circuit Current Per MPPT	44 / 25 / 25
Grid Input	
Rated Grid Voltage	L / N / PE, 230V
Voltage Input Range	195~253V
Rated Grid Frequency	50Hz
Rated Grid-Tied Power	12000W
Rated Grid-Tied Current	52.2A

Technical Specifications

HYX-H12K-LS

Product Model	HYX-H12K-LS
Grid Input	
Max Grid-Tied Apparent Power	13200VA
Max Grid-Tied Current	60A
Max Input Apparent Power	18000VA
Max Input Current	78.3A
Total Harmonic Distortion	< 3%
Displacement Power Factor	0.8 leading to 0.8 lagging
Backup Data	
Rated Output Power	12000W
Rated Output Current	52.2A
Rated Output Frequency	50Hz
Overload Capability	110%,continuous; 200%,10s
Switch Time	≤10
Total Harmonic Distortion (THDv)	<3%
Efficiency	
Max. Efficiency	97.8%
Euro Efficiency	96.5%
MPPT Tracking Efficiency	99.9%
Protection	
Integrated	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	Type II(DC), Type II(AC)
Over Voltage Category	OVC II (DC), OVC III (AC)
General Data	
Operating Temperature	-40~+60°C (Above 45°C Derating)
Dimensions (W*H*D)	450*570*268mm
Weight	39kg
Inverter Topology	Non-Isolated
Cooling	Smart cooling
Altitude	≤3000m
Protection Level	IP66
Communication	RS485, WiFi/GPRS, CAN2.0
Warranty	5 Years
General Data	
Grid Standard	VDE-AR-N4105, VDEV0126-1-1, CEIO-21, G98/G99, EN50438/EN50549, NRS097
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