

AXIhycon 12H-20H

12 kW / 15 kW / 20 kW

PV Hybrid Inverter
compatible with AXIstorage Li SV1 / SV2

Advantages:



4 MPP trackers for individual design of the PV system



Up to maximum 20 A input current and 30 A short circuit current



Up to 50 A maximum charge/Entdischarge current



UPS reaction time < 10 ms



Supports Peak Shaving Mode



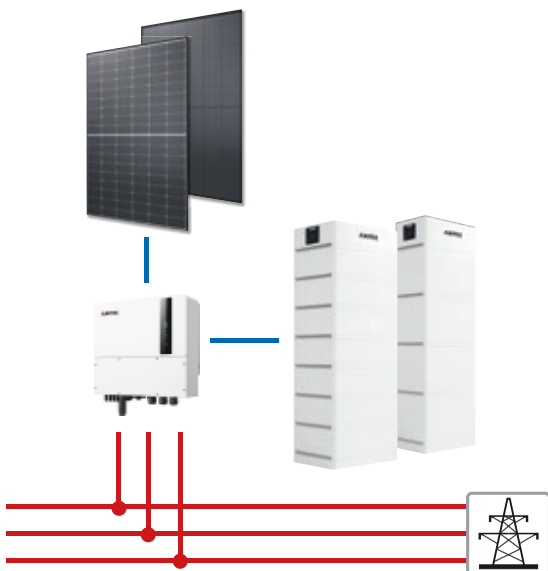
SG-Ready (kompatible)



Generator connection



AXIhyconEN250226



AXIhycon 12H-20H

Electrical Data

Models	12H	15H	20H
Input DC (PV)			
Recommended PV power	8 - 17 kWp	10 - 21 kWp	15 - 28 kWp
Max. PV power	19.2 kWp	24 kWp	32 kWp
Max. input voltage		1000 V	
Rated voltage		600 V	
Start-up voltage		160 V	
MPPT voltage range		200 - 850 V	
Max. input current		20 A	
Max. short circuit current		30 A	
Max. input power per MPPT		9 kW	
MPPT nr. / Max. input strings nr.		4 / 4	

Input DC (Battery)

Battery type	Lithium Iron Phosphate (LFP)		
Battery voltage range	120-800 V		
Max. charge / discharge power	12 kW	15 kW	20 kW
Max. charge / discharge current	50 A		
Communication	CAN / RS485		

Output AC (Grid)

Rated output power	12 kW	15 kW	20 kW
Max. apparent output power	12 kVA	15 kVA	20 kVA
Rated grid voltage	3/N/PE, 380 V		
Rated grid frequency	50 Hz		
Rated grid output current	18.2 A	22.8 A	30.4 A
Max. output current	18.2 A	22.8 A	30.4 A
Power factor	> 0.99 / 0.8 leading - 0.8 lagging		
THDi	< 3 %		

Output AC (Back-up)

Rated output power	12 kW	15 kW	20 kW
Max. apparent output power	24 kVA, 10 s	30 kVA, 10 s	40 kVA, 10 s
Back-up switch time	< 10 ms		
Rated output voltage	3/N/PE, 380 V		
Rated frequency	50 Hz		
Rated output current	18.2 A	22.8 A	30.4 A
THDv (linear load)	< 3 %		

Efficiency

Max. efficiency	98.5 %
EU efficiency	97.5 %
BAT charged by PV Max. efficiency	98.5 %
BAT charged /discharged to AC Max. efficiency	97.5 %

Protection

- Anti-Islanding
- Output over current protection
- Short circuit protection
- Integrated AFCI (Activation required)
- Integrated DC switch
- DC polarity protection
- PV overvoltage protection type II
- Battery reverse protection

General Data

Dimensions (W x H x D)	563 x 546x 235 mm
Weight	38.4 kg
Topology	Transformerless
Self-consumption (night)	< 25 W
Operating ambient temp. range	- 25 ~ + 60°C
Ingress protection	IP66
Cooling concept	Smart Cooling
Max. operation altitude	4000 m
Noise emission	< 65 dB

Grid connection standard

EN 50549-1, VDE4105 CEI 0-21, CEI 0-16, NC-RFG TypeB, NRS 097-2-1 ED 2.1

Safety / EMC standard

IEC/EN 62109-1/-2, IEC/EN 61000-6-1/-3, IEC 61000-2

Features

DC connection	MC4 connector
Battery connection	OT-Terminal
AC connection	OT-Terminal
Display	LED + Bluetooth + APP
Communication	CAN, RS485, Wi-Fi, LAN

Delivery

- Hybridwechselrichter
- Wi-Fi / LAN - Datenlogger
- Smart Meter

Compatible EMS

- Smart Fox
- Clever-PV
- Plexlog