






## AXIhycon 12H-20H 12 kW / 15 kW / 20 kW

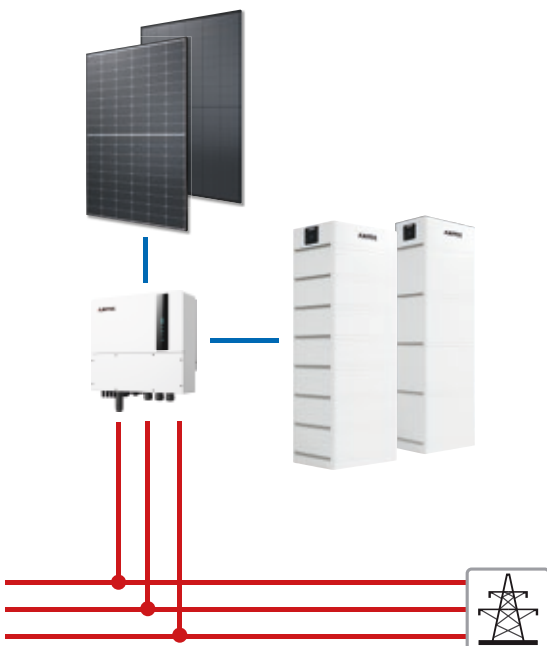
PV Hybrid Inverter  
compatible with AXIstorage Li SV1 / SV2

### 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



AXIhyconEN240514



# AXIhycon 12H-20H

## Electrical Data

Models	12H	15H	20H
<b>Input DC (PV)</b>			
Recommended max. PV power	19.2 kW	24 kW	32 kW
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 / 20 A / 20 A	
Max. short circuit current		30 A / 30 A / 30 A	
Max. input power per MPPT		9 kW	
MPPT nr. / Max. input strings nr.		4 / 4	

## Input DC (Battery)

Battery type		Li-ion	
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 A, 10 s	30 A, 10 s	40 A, 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 (DC arc-fault circuit protection / 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	32.6 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	2000 m

## 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, Ethernet, Wi-Fi, LAN

## Delivery

- Hybrid Inverter
- Wi-Fi / LAN - Data Logger