






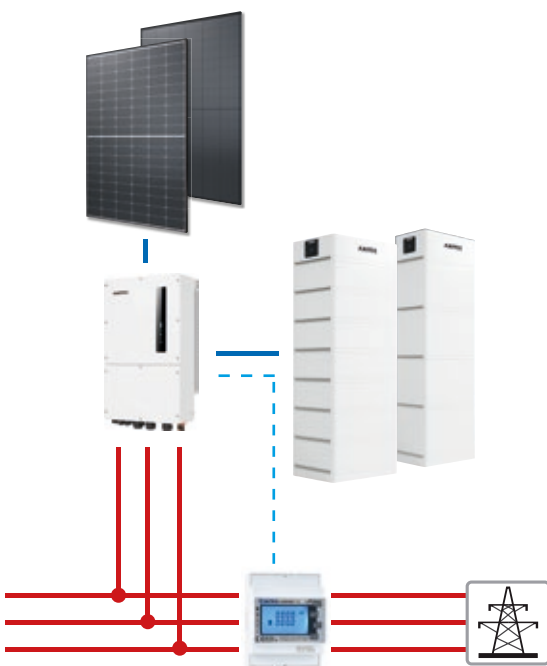
## AXIhycon 29.9H - 50H 29.9 kW / 40 kW / 50 kW

PV Hybrid Inverter  
compatible with AXIstorage Li SV1 / SV2

### Advantages:

-  4 MPP-trackers / 8 Strings for individual design of the PV system
-  Up to maximum 20 A input current and 30 A short circuit current
-  Maximum charge / discharge current of up to 70 A + 70 A / 140 A
-  UPS reaction time < 10 ms
-  Supports Peak Shaving Mode

Li SV1  
Li SV2  
compatible



# AXIhycon 29.9H - 50H

## Electrical Data

Models	29.9H	40H	50H
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### Input DC (PV)

Recommended max. PV power	41.86 kW	56 kW	70 kW
Max. input voltage		1000 V	
Rated voltage		600 V	
Start-up voltage		180 V	
MPPT voltage range		150 - 850 V	
Max. input current	3*40 A	4*40 A	4*40 A
Max. short circuit current	3*60 A	4*60 A	4*60 A
MPPT nr. / Max. input strings nr.	3 / 6	4 / 8	4 / 8

### Input DC (Battery)

Battery type		Li-ion	
Battery voltage range		150-800 V	
Max. charge / discharge power	29.9 kW	44 kW	55 kW
Max. charge / discharge current		70 A*2	
Communication		CAN/RS485	

### Output AC (Grid)

Rated output power	29.9 kW	40 kW	50 kW
Max. apparent output power	29.9 kVA	40 kVA	50 kVA
Rated grid voltage		3/N/PE, 380 V	
Rated grid frequency		50 Hz	
Rated grid output current	45.4 A	60.8 A	67 A
Max. output current	45.4 A	60.8 A	67 A
Power factor		> 0.99 / 0.8 leading - 0.8 lagging	
THDi		< 3 %	

### Output AC (Back-up)

Rated output power	29.9 kW	40 kW	50 kW
Max. apparent output power	47.8 kVA, 2 s	64 kVA, 2 s	80 kVA, 2 s
Back-up switch time		< 10 ms	
Rated output voltage		3/N/PE, 380 V	
Rated frequency		50 Hz	
Rated output current	45.4 A	60.8 A	76 A
THDv (linear load)		< 2 %	

### Efficiency

Max. efficiency	97.6 %
EU efficiency	97.0 %
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)	530 x 880 x 290 mm
Weight	73 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

## Grid connection standard

G98 or G99, VDE-AR-N 4105 / VDE V 0124, EN 50549-1, VDE 0126 / UTE C 15 / VFR:2019, RD 1699 / RD 244 / UNE 206006 / UNE 206007-1, CEI 0-21, C10/11, NRS 097-2-1, TOR, EIFS 2018.2, IEC 62116, IEC 61727, IEC 60068, IEC 61683, EN 50530, MEA, PEA

## Safety / EMC standard

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

## 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
- Smart Meter / Easton SDM630CT