

AXIhycon 29.9H - 50H

29.9 kW / 40 kW / 50 kW

PV Hybrid Inverter

compatible with AXIstorage Li SV1 / SV2 / SV3 and Titan

Advantages:



Up to 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



Generator connection



10 years warranty



AXIhyconEN250918



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Electrical Data

Models	29.9H	40H	50H
Input DC (PV)			
Recommended PV power	20 – 42 kWp	30 – 56 kWp	40 – 70 kWp
Max. PV power	60 kWp	80 kWp	100 kWp
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	Lithium Iron Phosphate (LFP)		
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 (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	Smart Cooling
Max. operation altitude	4000 m
Noise emission	< 65 dB

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, 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, Wi-Fi, LAN

Delivery

- Hybrid Inverter
- Wi-Fi / LAN - Data Logger
- Smart Meter / Eastron SDM630MCT

Compatible EMS

- Smart Fox
- Clever-PV
- Plexlog