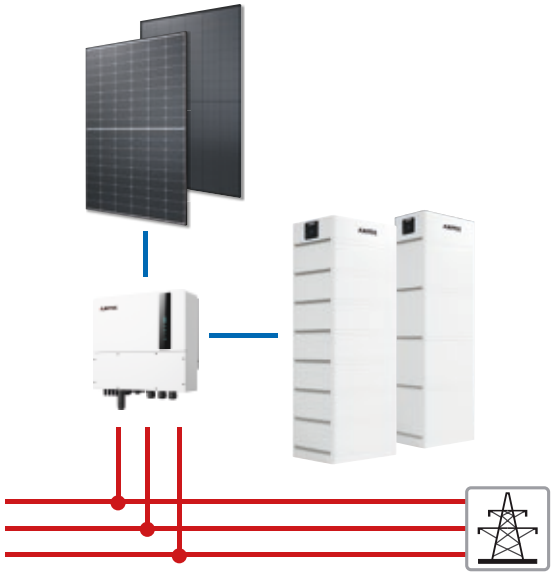
AXIhycon 12H -20H
12 kW / 15 kW / 20 kW

PV Hybrid Inverter
compatible with AXIstorage Li SV1 / SV2 / SV3

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
- Generator connection
- 10 years warranty
- SG-Ready (compatible)

AXIhyconEN260518



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		200 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	Smart Cooling
Max. operation altitude	4000 m
Noise emission	< 65 dB

Grid connection standard

EN 50549-1, VDE4105, NC-RFG TypeB, VDE V0124, C10/11

Safety / EMC standard

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

Features

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

Delivery

- Hybrid Inverter
- Wi-Fi / LAN - Datenlogger
- Smart Meter

Compatible EMS

- Smart Fox
- Clever-PV
- Plexlog
- Solar Manager

Technical data are subject to change without prior notice, errors excepted. The measurement tolerances are +/-3%. Please be aware: All technical data provided in our data sheets are property of Axitec Energy GmbH & Co. KG and intended for information purposes for our customers only. We cannot accept any guarantee of completeness or accuracy. These data are prohibited for any kind of commercial use.