AXIhycon 5H -10H
5 kW / 6 kW / 8 kW / 10 kW

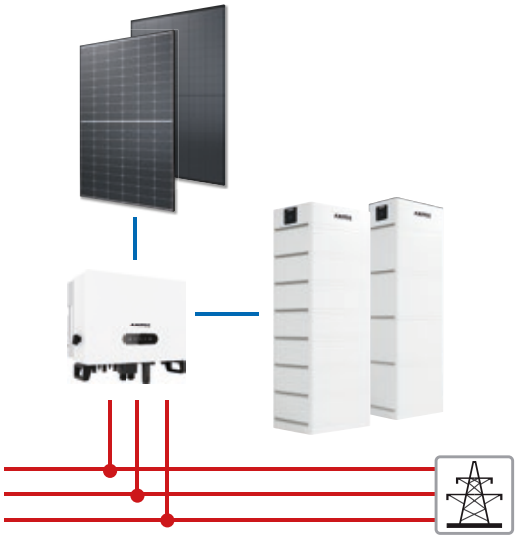
PV Hybrid Inverter
compatible with AXIstorage Li SV1 / SV2 / SV3

Advantages:

- 2 MPP trackers for individual design of the PV system
- Up to maximum 16 A input current and 24 A short circuit current
- UPS reaction time < 10 ms
- Supports Peak Shaving Mode
- Up to 50 A maximum charge/ entdischarge current
- Fanless cooling
- 10 years warranty



AXIhyconEN260518



AXITEC

AXIhycon 5H - 10H

Electrical Data

Models	5H	6H	8H	10H
Input DC (PV)				
Recommended PV power	3 - 7 kWp	4 - 9 kWp	6 - 11 kWp	7 - 14 kWp
Max. PV power	8 kWp	9.6 kWp	12.8 kWp	16 kWp
Max. input voltage	1000 V			
Rated voltage	600 V			
Start-up voltage	200 V			
MPPT voltage range	200 - 850 V			
Max. input current	16 A			
Max. short circuit current	24 A			
MPPT nr. / Max. input strings nr.	2 / 2			
Input DC (Battery)				
Battery type	Lithium Iron Phosphate (LFP)			
Battery voltage range	120-600 V			
Max. charge / discharge power	5 kW	6 kW	8 kW	10 kW
Max. charge / discharge current	25 A	25 A	50 A	50 A
Communication	CAN			
Output AC (Grid)				
Rated output power	5 kW	6 kW	8 kW	10 kW
Max. apparent output power	5 kVA	6 kVA	8 kVA	10 kVA
Rated grid voltage	3/N/PE, 380 V			
Rated grid frequency	50 Hz			
Rated grid output current	7.6 A	9.1 A	12.2 A	15.2 A
Max. output current	8.4 A	10 A	13.4 A	16.7 A
Power factor	> 0.99 (0.8 leading - 0.8 lagging)			
THDi	< 3 %			
Output AC (Back-up)				
Rated output power	5 kW	6 kW	8 kW	10 kW
Max. apparent output power	8 kVA, 60 s	9.6 kVA, 60 s	12.8 kVA, 60 s	16 kVA, 60 s
Back-up switch time	< 10 ms			
Rated output voltage	3/N/PE, 380 V			
Rated frequency	50 H			
Rated output current	7.6 A	9.1 A	12.2 A	15.2 A
THDv (linear load)	< 2 %			
Efficiency				
Max. efficiency	97.87 %	97.91 %	98.03 %	98.04 %
EU efficiency	96.77 %	97.1 %	97.41 %	97.51 %
BAT charged by PV Max. efficiency	98.37 %	98.45 %	98.22 %	98.31 %
BAT charged /discharged to AC Max. efficiency	97.32 %	97.34 %	97.5 %	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)	600 x 500 x 230 mm
Weight	32.6 kg
Topology	transformerless
Self-consumption (night)	< 25 W
Operating ambient temp. range	- 25 ~ + 60°C
Ingress protection	IP66
Cooling	fanless
Max. operation altitude	4000 m
Noise emission	< 30 dB

Grid connection standard

VDE-AR-N 4105 / VDE V 0124, EN 50549-1, VFR:2019, RD 1699/RD 244 / UNE 206006 / UNE 206007-1, C10/11, TOR, EIFS 2018.2

Safety / EMC standard

IEC / EN 62109-1/-2, IEC / EN 61000-6-1/-3, IEC 62116, IEC 61727, IEC 60068, IEC 61683, EN 50530

Features

DC connection	MC4 connector
Battery connnection	Quick connection plug
AC connection	Quick connection plug
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
- 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.