The perfect combination:

AXIstorage Titan + AXIhycon 50H

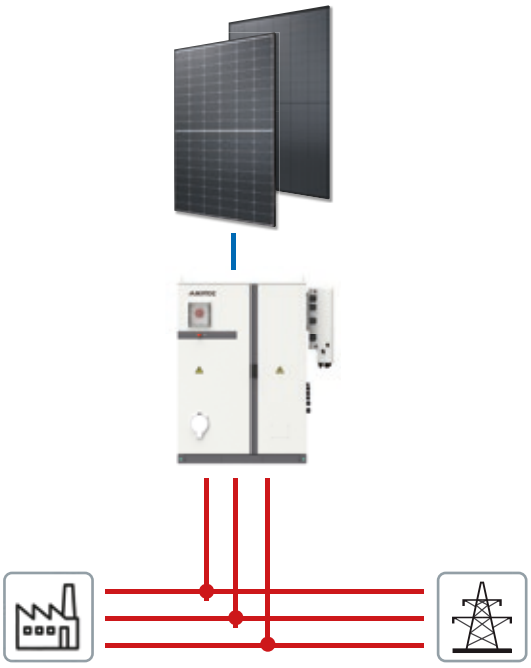
99 kWh / 50 kW

High-Performance Energy Storage, compatible with PV Hybrid Inverter AXIhycon 50H for e-mobility and commercial applications

The advantages:

- 99 kWh useable capacity
- Maximal 6 storages side by side
- 10 years of time value replacement warranty
- 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
- Generator connection
- High quality safety standards

Three-Phase Connection with Hybrid Inverter AXIhycon 50H





Titan/AXIhycon50HEN251126

AXIstorage Titan + AXIhycon 50H

Structure and Mechanical Data

	Titan	AXIhycon 50H
W x H x D (mm))	1500 x 2195 x 1125	530 x 880 x 290 mm
Weight	1.75 Tons (incl.Battery)	73 kg
Prozection Category	IP55	IP66

Electrical Data

Input DC (PV)

Recommended PV power	40 – 70 kWp
Max. PV power	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	4*40 A
Max. short circuit current	4*60 A
MPPT nr. / Max. input strings nr.	4 / 8

Battery (Titan)

Useable Capacity	**99 kWh**
Nominal Voltage	704 V
Nominal Capacity	148 Ah
Max. Continuous Charging Current	50 kW
Max. Continuous Discharge Current	50 kW
Efficiency	up to 96 %
Technology	Lithium Iron Phosphate (LFP)

Output AC (Grid)

Rated output power	50 kW
Max. apparent output power	50 kVA
Rated grid voltage	3/N/PE, 380 V
Rated grid frequency	50 Hz
Rated grid output current	67 A
Max. output current	67 A

Output AC (Back-up)

Rated output power	50 kW
Max. apparent output power	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	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 %

General Data

Topology	transformerless
Operating ambient temp. range	- 25 ~ + 40°C
Max. operation altitude	3000 m
Noise emission	< 65 dB
Cooling	Air Cooling
Max. humidity (non-condensing)	95 %

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

Features (AXIhycon)

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

Grid connection standard (AXIhycon)

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

Certifications / Standards

Titan: UN38.3 / UN3481 / IEC62619 / IEC62040-1 / CE / VDE2510-50 / UL1973 / UL9540A / UL9540, VDE-AR-N 4105 / EN 50549-1 / EN 50549-10 / IEC 62116 / IEC 61727/IEC 60068 /I EC 61683 / EN 50530

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

Compatible EMS

- Smart Fox
- Clever-PV
- Plexlog

Delivery (Titan and Hycon)

- Cabinet with energy packs and battery management system (BMS)
- Integrated aerosol fire extinguishing system
- Hybrid Inverter
- Wi-Fi / LAN - Data Logger
- Smart Meter / Eastron SDM630MCT V2

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.