



Product Service

CERTIFICATE

No. B 096640 0032 Rev. 00

Holder of Certificate: AXITEC Energy GmbH & Co. KG
Otto-Lilienthal-Straße 5
71034 Böblingen
GERMANY

Certification Mark:



Product: Converter
Hybrid Inverter

The product was tested on a voluntary basis and complies with the essential requirements. The certification mark shown above can be affixed on the product. It is not permitted to alter the certification mark in any way. In addition, the certification holder must not transfer the certificate to third parties. This certificate is valid until the listed date, unless it is cancelled earlier. All applicable requirements of the Testing, Certification, Validation and Verification Regulations of TÜV SÜD Group have to be complied. For details see: www.tuvsud.com/ps-cert

Test report no.: 701262501101-00

Valid until: 2029-12-09

Date, 2025-01-22

(Zhengdong Ma)

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Model(s):

AXIhycon 29.9H, AXIhycon 30H, AXIhycon 40H,
AXIhycon 50H, AXIhycon 50H-YD

Parameters:

Model	AXIhycon 30H	AXIhycon 40H	AXIhycon 50H, AXIhycon 50H-YD
PV input			
Max. input voltage	1000 Vd.c.		
MPPT voltage range	150, ..., 850 Vd.c.		
Max. input current	3x40 Ad.c.	4x40 Ad.c.	4x40 Ad.c.
Isc PV (absolute maximum)	3x60 Ad.c.	4x60 Ad.c.	4x60 Ad.c.
MPPT number/max input strings number	3/6	4/8	4/8
Battery input			
Battery type	Li-ion		
Battery voltage range	150, ..., 800 Vd.c.		
Max. charge current	2x70 Ad.c.	2x70 Ad.c.	2x70 Ad.c.
Max. discharge current	2x70 Ad.c.	2x70 Ad.c.	2x70 Ad.c.
AC output (Back-up)			
Max.(rated) output power	30000 W	40000 W	50000 W
Nominal output voltage	3/N/PE 220/380 Va.c., 3/N/PE 230/400 Va.c.		
Nominal frequency	50 / 60 Hz		
Max.(rated) output current	45.6 Aa.c.@ 220/380 Va.c. 43.3 Aa.c.@ 230/400 Va.c.	60.8 Aa.c.@ 220/380 Va.c. 57.7 Aa.c.@ 230/400 Va.c.	76.0 Aa.c.@ 220/380 Va.c. 72.2 Aa.c.@ 230/400 Va.c.
AC output (Grid side)			
Max.(rated) apparent output power	30000 VA	40000 VA	50000 VA
Nominal output voltage	3/N/PE 220/380 Va.c., 3/N/PE 230/400 Va.c.		
Nominal frequency	50 / 60 Hz		
Max.(rated) output current	45.6 Aa.c.@ 220/380 Va.c. 43.3 Aa.c.@ 230/400 Va.c.	60.8 Aa.c.@ 220/380 Va.c. 57.7 Aa.c.@ 230/400 Va.c.	76.0 Aa.c.@ 220/380 Va.c. 72.2 Aa.c.@ 230/400 Va.c.
AC input (for Grid port and Gen port)			
Nominal voltage	3/N/PE 220/380 Va.c., 3/N/PE 230/400 Va.c.		
Grid max.(rated) continuous current	91.2 Aa.c.@ 220/380 Va.c. 86.6 Aa.c.@ 230/400 Va.c.	121.6 Aa.c.@ 220/380 Va.c. 115.4 Aa.c.@ 230/400 Va.c.	152.0 Aa.c.@ 220/380 Va.c. 144.4 Aa.c.@ 230/400 Va.c.
Gen max.(rated) continuous current	45.6 Aa.c.@ 220/380 Va.c. 43.3 Aa.c.@ 230/400 Va.c.	60.8 Aa.c.@ 220/380 Va.c. 57.7 Aa.c.@ 230/400 Va.c.	76.0 Aa.c.@ 220/380 Va.c. 72.2 Aa.c.@ 230/400 Va.c.
Nominal frequency	50 / 60 Hz		
General			
Power factor range	-0.8, ..., 1, ..., +0.8		
Protective class	I		
Ingress protection	IP 66		
Operating temperature Range	-25°C, ..., +60 °C		
Max. operation altitude	4000 m		

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Model	AXIhycon 29.9H
PV input	
Max. input voltage	1000 Vd.c.
MPPT voltage range	150, ..., 850 Vd.c.
Max. input current	3x40 Ad.c.
Isc PV (absolute maximum)	3x60 Ad.c.
MPPT number/max input strings number	3/6
Battery input	
Battery type	Li-ion
Battery voltage range	150, ..., 800 Vd.c.
Max. charge current	2x70 Ad.c.
Max. discharge current	2x70 Ad.c.
AC output (Back-up)	
Max.(rated) output power	29900 W
Nominal output voltage	3/N/PE 220/380 Va.c., 3/N/PE 230/400 Va.c.
Nominal frequency	50 / 60 Hz
Max.(rated) output current	45.4 Aa.c.@ 220/380 Va.c. 43.2 Aa.c.@ 230/400 Va.c.
AC output (Grid side)	
Max.(rated) apparent output power	29900 VA
Nominal output voltage	3/N/PE 220/380 Va.c., 3/N/PE 230/400 Va.c.
Nominal frequency	50 / 60 Hz
Max.(rated) output current	45.4 Aa.c.@ 220/380 Va.c. 43.2 Aa.c.@ 230/400 Va.c.
AC input (for Grid port and Gen port)	
Nominal voltage	3/N/PE 220/380 Va.c., 3/N/PE 230/400 Va.c.
Grid max.(rated) continuous current	90.8 Aa.c.@ 220/380 Va.c. 86.4 Aa.c.@ 230/400 Va.c.
Gen max.(rated) continuous current	45.4 Aa.c.@ 220/380 Va.c. 43.2 Aa.c.@ 230/400 Va.c.
Nominal frequency	50 / 60 Hz
General	
Power factor range	-0.8, ..., 1, ..., +0.8
Protective class	I
Ingress protection	IP 66
Operating temperature Range	-25°C, ..., +60 °C
Max. operation altitude	4000 m

Tested according to: IEC 62109-1:2010
 EN 62109-1:2010
 IEC 62109-2:2011
 EN 62109-2:2011