Unit Certificate

Zhejiang Hyxi Technology Co., Ltd.
Room 216, Block A, Building 1, No. 57 Jiang'er Road,
Changhe Street, Binjiang District, Hangzhou, Zhejiang,
China.

Type of equipment	Stackable hybrid module (Type 2)		
Product Name	HYX-H-HTA, HYX-H-HTAC		
Technical data	rated active power:	P_{rE}	= 15.0 kW
	maximum active power:	P_{Emax}	= 16.5 kW
	max. apparent power:	S_{Emax}	= 16.5 kVA
	rated voltage:	U_r	= 400 V
	Rated current (AC):	I_r	= 21.8 A
	Initial short-circuit AC current:	I_k"	= 34.0 A
Certification scheme	P30VA01 Rev. 11/10.25	TÜV NORD Certification Process for Grid Integration Certification	
Network connection rule	VDE-AR-N 4105 2018-11	Generators connected to the low-voltage distribution network customer installations to the medium voltage network operation with low- voltage distribution networks	
Test requirement	DIN VDE V 0124-100 2020-06	Grid integration of generator plants - Low-voltage Test requirements for generator units to be connected to and operated in parallel with low-voltage distribution networks	

The power generating units comply with the requirements of the network connection rule specified above, with a restriction. For further details and technical specifications, please refer to Annex 1, which consists of 4 pages.

Certificate Registration No. 4479823053470 valid from 2026-02-02
Evaluation Report No. 35415093 Type 1a Certificate

Essen,2026-02-02
Rev. 00

Certification body of TÜV NORD CERT GmbH

TÜV NORD CERT GmbH
Am TÜV 1, 45307 Essen
Germany
www.tuev-nord-cert.com

TÜV®

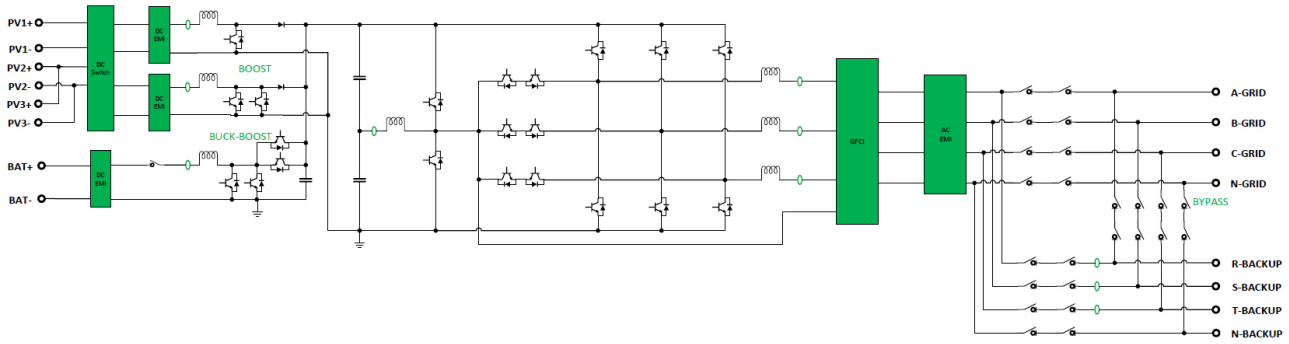
DAkkS
Deutsche
Akkreditierungsstelle
D-ZE-12007-01-00

ANNEX 1

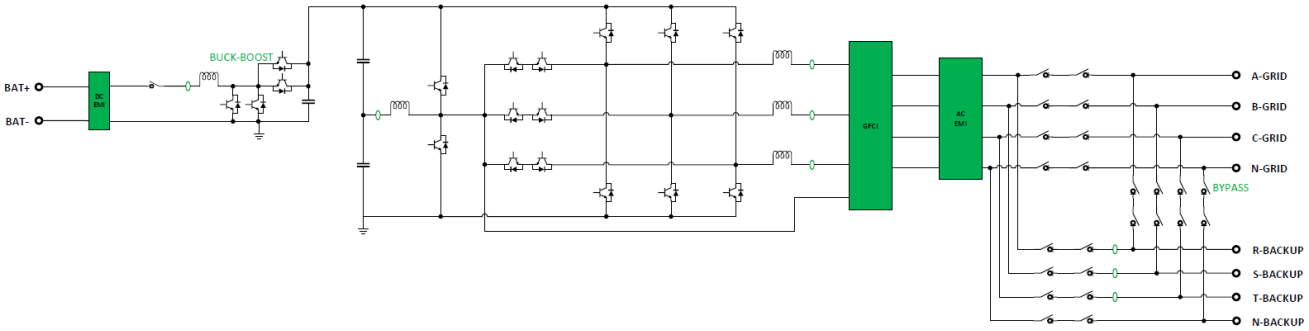
to the Unit Certificate with the Registration No. 44798230534

Zhejiang Hyxi Technology Co., Ltd.
Room 216, Block A, Building 1, No. 57 Jiang'er Road, Changhe Street, Binjiang District, Hangzhou, Zhejiang, China.

Schematic structure of the power generating units:



Circuit diagram of models HYX-H-HTA



Circuit diagram of models HYX-H-HTAC

Essen,2026-02-02
Rev. 00

TÜV NORD CERT GmbH
Am TÜV 1, 45307 Essen
Germany
www.tuev-nord-cert.com

DAkkS
Deutsche
Akkreditierungsstelle
D-ZE-12007-01-00

ANNEX 1

to the Unit Certificate with the Registration No. 44798230534

Technical data of the power generating units

General		
Type of EZE	Type 2 / Stackable hybrid module	
Designation	HYX-H-HTA	HYX-H-HTAC
On-grid variables		
Rated apparent power S_{rE}	15000 VA 16500 VA (max)	
Rated effective power P_{rE}	15000 W 16500 W (max)	
Max. effective power P_{Emax}	16567.3 W (1.004 P_{Emax})	
Max. apparent power S_{Emax}	16712.2 VA (1.013 P_{Emax})	
Rated voltage U_r	230/400V, 3/N/PE	
Rated current I_r	21.8 A	
Initial short-circuit alternating current I''_k	34.0 A	
Reactive power adjustment range cos φ	0.8 leading to 0.8 lagging	
Rated output / Input frequency f_n	50 Hz	
Battery Variables		
Battery Rated Voltage	150-600 V	
Max. Charge/Discharge Current	32 A	
PV – Input Variables		
Min. MPP voltage	140 V	-
Max. MPP voltage	980 V	-
Max. DC input voltage	1000 V	-
Max. input current	20/20*2 A	-
Isc PV	30/30*2 A	-

TÜV NORD CERT GmbH
Am TÜV 1, 45307 Essen
Germany
www.tuev-nord-cert.com

DAkkS Deutsche Akkreditierungsstelle D-ZE-12007-01-00

ANNEX 1

to the Unit Certificate with the Registration No. 44798230534

DC – Input variables	
Type /IGBT module	IKW75N120CH7 & IKW75N65ES5
Quantity DC Link Capacitor	8
Clock frequency	20kHz
Type of power control	PWM
Max. Output current (only for IGBT)	75A
Software versions	V1.0
Generation unit Control	
Manufacturer	Zhejiang Hyxi Technology Co., Ltd.
Software version	V1.0
Protection device	
Manufacturer	XIAMEN HONGFA ELECTROACOUSTIC CO LTD
Type	Integrated guard
Switch-off unit (AC)	HF161F-W
Software versions	V1.0

TÜV NORD CERT GmbH
Am TÜV 1, 45307 Essen
Germany
www.tuev-nord-cert.com

DAkkS Deutsche Akkreditierungsstelle D-ZE-12007-01-00

ANNEX 1

to the Unit Certificate with the Registration No. 44798230534

Remarks	Additional technical data is given in the evaluation report (appendix A1). The use of a modified software version is permitted if the changes to the above-mentioned software versions have been checked by TÜV NORD CERT GmbH. The validity of a new software version is confirmed to the manufacturer in writing. This confirmation then forms part of the certificate. Quality Management System The manufacturer has proven for the manufacturing facility of the power generating units a certification of its quality management system according to ISO 9001. The manufacturer confirmed in a manufacturer declaration that the certification of the management system will be valid parallel to the period of this unit certificate. The battery portion of the product was not evaluated, except for clause 5.7.4.2.3 "Active power adjustment at over-frequency and under-frequency" in VDE-AR-N 4105.
Restrictions	Please note that the HYX-H-HTA, HYX-H-HTAC does not have a display. As a result, the protection settings of the decoupling protection and the connection conditions cannot be read or set via a display on the component. As a result, a readout function must be implemented on the PGU.
Appendix to the Certificate	A1. Evaluation report no. 35415093 version 1.0 A2. Extracts from the test report VDE-AR-N 4105 Annex E.5 TÜV NORD Testing (Suzhou) Co., Ltd. Extract No. RDPVP07128/24E/02 A1 A1 from Nov.28,2024 A3. Extracts from the test report VDE-AR-N 4105 Annex E.7 TÜV NORD Testing (Suzhou) Co., Ltd. Extract No. RDPVP07128/24E/02 A2 A1 from Nov.28,2024

Essen,2026-02-02

Certification body of TÜV NORD CERT GmbH

TÜV NORD CERT GmbH
Am TÜV 1, 45307 Essen
Germany
www.tuev-nord-cert.com

DAkkS Deutsche Akkreditierungsstelle D-ZE-12007-01-00