

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	All-in-one Micro ESS & AC-Coupled Micro ESS	
Product Name	HYX-MS3000AC-800, HYX-MS3000AC-800-BP-1, HYX-MS3000AC-800-BP-2, HYX-MS3000AC-800-BP-3, HYX-MS3000AC-800-BP-4, HYX-MS3000AC-800-BP-5, HYX-MS3000-800, HYX-MS3000-800-BP-1, HYX-MS3000-800-BP-2, HYX-MS3000-800-BP-3, HYX-MS3000-800-BP-4, HYX-MS3000-800-BP-5, HYX-MS3000AC, HYX-MS3000AC-BP-1, HYX-MS3000AC-BP-2, HYX-MS3000AC-BP-3, HYX-MS3000AC-BP-4, HYX-MS3000AC-BP-5, HYX-MS3000, HYX-MS3000-BP-1, HYX-MS3000-BP-2, HYX-MS3000-BP-3, HYX-MS3000-BP-4, HYX-MS3000-BP-5	
Technical data	Detail see the ANNEX 1	
Certification scheme	P30VA01 Rev. 11/10.25	TÜV NORD Certification Process for Grid Integration Certification
Standard	EN 50549-1 2019+A1: 2023	Requirements for generating plants to be connected in parallel with distribution networks - Part 1: Connection to a LV distribution network - Generating plants up to and including Type B
Additional standards	EN 50549-10 2022	Requirements for generating plants to be connected in parallel with distribution networks - Part 10: Tests for conformity assessment of generating units

The power generating units comply with the requirements of the network connection rule specified above. For further details and technical specifications, please refer to Annex 1, which consists of 5 pages.

Certificate Registration No. 4479923053420
Evaluation Report No. 35419766

valid from 2026-03-16
Type 1a Certificate

Essen, 2026-03-16
Rev. 1.0



Certification body of TÜV NORD CERT GmbH

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ANNEX 1

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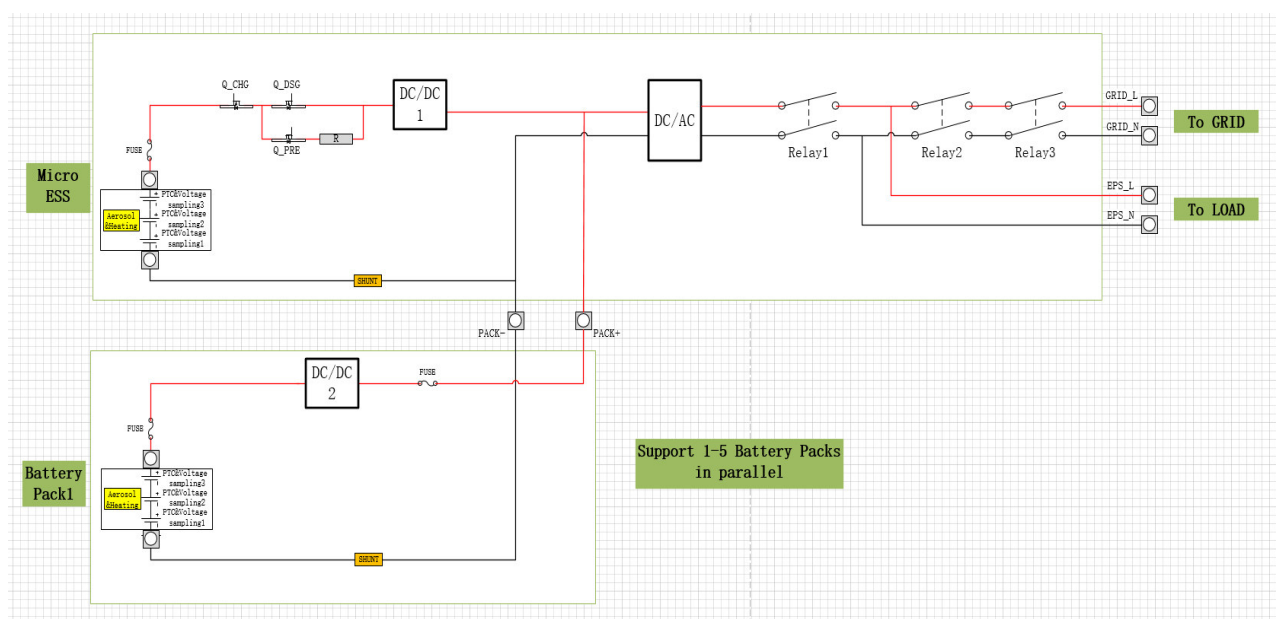
EN 50549-1:2019+A1:2023

EN 50549-10:2022

Zhejiang Hyxi Technology Co., Ltd.

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Schematic structure of the AC-Coupled Micro ESS:



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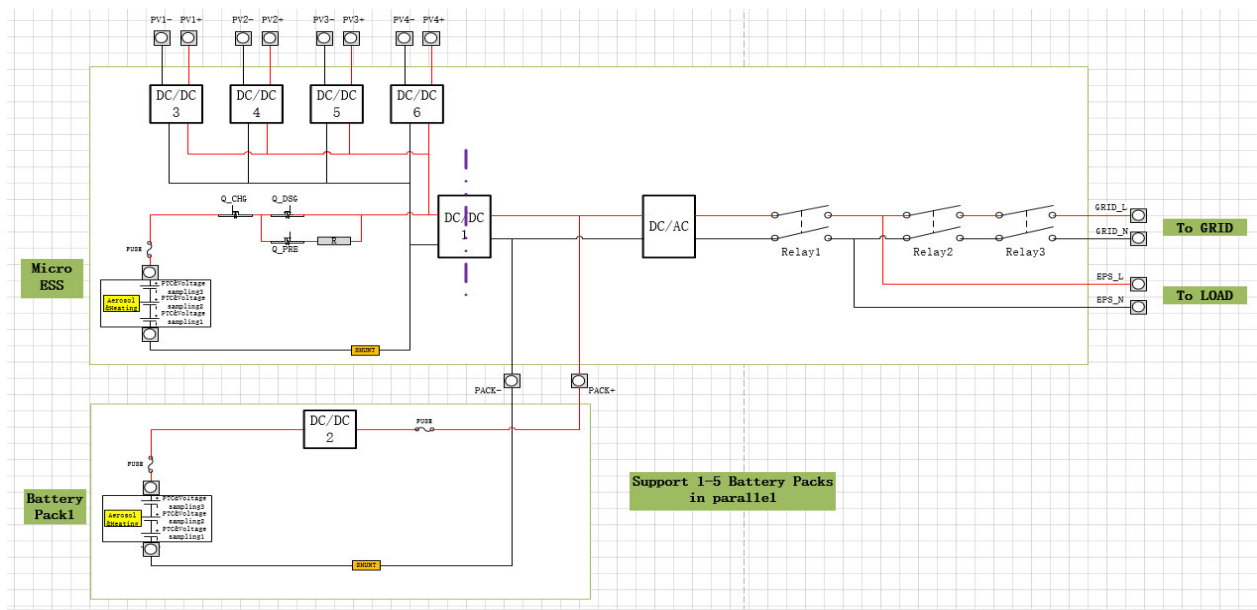
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Schematic structure of the All-in-one Micro ESS:



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Technical data of the power generating units

General				
Type of Generation unit	AC-Coupled Micro ESS			
Designation	HYX-MS3000AC	HYX-MS3000AC-BP-1	HYX-MS3000AC-800	HYX-MS3000AC-800-BP-1
		HYX-MS3000AC-BP-2		HYX-MS3000AC-800-BP-2
		HYX-MS3000AC-BP-3		HYX-MS3000AC-800-BP-3
		HYX-MS3000AC-BP-4		HYX-MS3000AC-800-BP-4
		HYX-MS3000AC-BP-5		HYX-MS3000AC-800-BP-5
Battery Data				
Battery Type	Rechargeable Li-ion Battery			
Battery Information	9.6Vd.c.,314Ah,3014Wh			
Max Charge/Discharge Current [Ad.c.]	157/157			
Rated Power (Single device) [W]	1500			
AC Input (on-grid terminal)				
Rated Voltage [Va.c.]	220/230/240, L+N+PE			
Rated Frequency [Hz]	50/60			
Max Input Power [VA]	1500	3000	800	800
Max Input Current [Aa.c.]	6.53	13.05	3.48	3.48
AC Output (on-grid terminal)				
Rated Voltage [Va.c.]	220/230/240, L+N+PE			
Rated Frequency [Hz]	50/60			
Max Output Apparent power [VA]	800(Default) 1500*	800(Default) 3000*	800	800
Max Output current [Aa.c.]	3.48(Default) 6.53*	3.48(Default) 13.05*	3.48	3.48
Rated Output power [W]	800(Default) 1500*	800(Default) 3000*	800	800

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Rated Output current [Aa.c.]	3.48(Default) 6.53*	3.48(Default) 13.05*	3.48	3.48
Power Factor cosφ [λ]	0.8 leading to 0.8 lagging			
AC Output (off-grid terminal)				
Rated Voltage [Va.c.]	220/230/240, L+N+PE			
Rated Frequency [Hz]	50/60			
Max Output Apparent power [VA]	1500	3000	1500	3000
Max Output current [Aa.c.]	6.53	13.05	6.53	13.05
Rated Output power [W]	1500	3000	1500	3000
Rated Output current [Aa.c.]	6.53	13.05	6.53	13.05
*: Enabling this function must comply with local regulations and must be performed by professional technicians!				
INV Power Section				
Type IGBT module	NCE75ED65VT			
Quantity DC Link Capacitor	8			
Clock frequency	20KHz			
Type of power control	PWM			
Max. Output current (only for IGBT)	75A			
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)	HF140FF-G			
Software versions	V1.0			

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General		
Type of Generation unit	All-in-one Micro ESS	
Designation	HYX-MS3000 HYX-MS3000-BP-1 HYX-MS3000-BP-2 HYX-MS3000-BP-3 HYX-MS3000-BP-4 HYX-MS3000-BP-5	HYX-MS3000-800 HYX-MS3000-800-BP-1 HYX-MS3000-800-BP-2 HYX-MS3000-800-BP-3 HYX-MS3000-800-BP-4 HYX-MS3000-800-BP-5
Battery Data		
Battery Type	Rechargeable Li-ion Battery	
Battery Information	9.6Vd.c.,314Ah,3014Wh	
Max Charge/Discharge Current [Ad.c.]	157/157	
Rated Power (Single device) [W]	1500	
PV Terminal		
Max PV Input Voltage [Vd.c.]	60	
Max PV Current [Ad.c.]	18/18/18/18	
Isc PV [Ad.c.]	25/25/25/25	
Max PV Input Power [W]	2400	
AC Input (on-grid terminal)		
Rated Voltage [Va.c.]	220/230/240, L+N+PE	
Rated Frequency [Hz]	50/60	
Max Input Power [VA]	1500	
Max Input Current [Aa.c.]	6.53	
AC Output (on-grid terminal)		
Rated Voltage [Va.c.]	220/230/240, L+N+PE	
Rated Frequency [Hz]	50/60	
Max Output Apparent power [VA]	800(Default) 1500*	800
Max Output current [Aa.c.]	3.48(Default) 6.53*	3.48

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Rated Output power [W]	800(Default) 1500*	800
Rated Output current [Aa.c.]	3.48(Default) 6.53*	3.48
Power Factor cosφ [λ]	0.8 leading to 0.8 lagging	
AC Output (off-grid terminal)		
Rated Voltage [Va.c.]	220/230/240, L+N+PE	
Rated Frequency [Hz]	50/60	
Max Output Apparent power [VA]	2300	
Max Output current [Aa.c.]	10.00	
Rated Output power [W]	1500	
Rated Output current [Aa.c.]	6.53	
*: Enabling this function must comply with local regulations and must be performed by professional technicians!		
INV Power Section		
Type IGBT module	NCE75ED65VT	
Quantity DC Link Capacitor	8	
Clock frequency	20KHz	
Type of power control	PWM	
Max. Output current (only for IGBT)	75A	
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)	HF140FF-G	
Software versions	V1.0	

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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.

Restriction

N/A

Appendix to the Certificate A1. Evaluation report no. 35419766 version 1.0

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