

# Certificate of Conformity

No. ESY 090762 0129 Rev. 00

**Holder of Certificate:** **Pylon Technologies Co., Ltd.**  
No.300, Miaoqiao Road, Kangqiao Town  
Pudong New Area  
201315 Shanghai  
PEOPLE'S REPUBLIC OF CHINA

**Product:** **Hybrid Energy Storage System**  
**Force H3X Energy Storage System**

**Model(s):** FH3X-8K-HY-3P-10, FH3X-8K-HY-3P-15, FH3X-8K-HY-3P-20,  
FH3X-8K-HY-3P-25, FH3X-8K-HY-3P-30, FH3X-8K-HY-3P-35,  
FH3X-10K-HY-3P-10, FH3X-10K-HY-3P-15, FH3X-10K-HY-3P-20,  
FH3X-10K-HY-3P-25, FH3X-10K-HY-3P-30, FH3X-10K-HY-3P-35,  
FH3X-12K-HY-3P-10, FH3X-12K-HY-3P-15, FH3X-12K-HY-3P-20,  
FH3X-12K-HY-3P-25, FH3X-12K-HY-3P-30, FH3X-12K-HY-3P-35,  
FH3X-15K-HY-3P-10, FH3X-15K-HY-3P-15, FH3X-15K-HY-3P-20,  
FH3X-15K-HY-3P-25, FH3X-15K-HY-3P-30, FH3X-15K-HY-3P-35

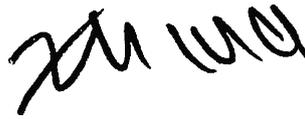
**Parameters:** See next pages.

**Applicable standards:** EN 50549-1:2019  
RfG:2016  
NC RfG:2018  
PTPIREE:2021

This Certificate of Conformity confirms the compliance with the above listed standards on a voluntary basis. It refers only to the sample submitted to TÜV SÜD Product Service GmbH and does not certify the quality or safety of the serial products. It was issued according to TÜV SÜD Product Service certification program Photovoltaics and Grid Integration. For details see: [www.tuvsud.com/ps-cert](http://www.tuvsud.com/ps-cert)

**Test report no.:** 704092459624-00

**Date,** 2025-06-13



( Zhengdong Ma )

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Technical Certifier (Zhengdong Ma) appointed by Certification Body TÜV SÜD Product Service GmbH performed assessment of the products listed in this certification in the place: Ridlerstraße 65, 80339 Munich, Germany.

<b>Test requirement</b>	<p>The certification complies with the requirements of the following documents for <b>PPM</b> installations of <b>Type A</b>:</p> <p><b>EN 50549-1:2019</b> 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</p> <p><b>RfG:2016</b> Commission Regulation (EU) 2016/631 of 14 April 2016 establishing a network code on requirements for the connection of generating units to the Network (OJ EU L 112/1 of 27.4.2016)</p> <p><b>NC RfG:2018</b> General applicability requirements resulting under EU commission regulation 2016/631 of 14 April 2016 establishing a network code on requirements for the connection of generating units to the grid (NC RfG-2018) - approved by the Decision of the President of the Energy Regulatory Office DRE.WOSE.7128.550.2.2018.ZJ dated 2 January 2019.</p> <p><b>PTPIREE:2021</b> Conditions and procedures for the use of certificates in the process of connecting modules generation modules to the power grid V1.2</p>
Designation and type of certification programme	1(a) according to EN ISO/IEC 17067  Based on Photovoltaics and Grid Integration Certification Program (Revision 7, Dated 30 Aug 2022) for Poland Grid Code
Manufacturer & Address	Pylon Technologies Co., Ltd. No.300, Miaoqiao Road, Kangqiao Town, Pudong New Area, 201315 Shanghai, PEOPLE'S REPUBLIC OF CHINA
Software version	BMS: Force H3X_CMU_V1.0; Inverter V1.0.0.5
Expiry date of certificate	2030-06-10

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Models	FH3X-8K-HY-3P-10, FH3X-8K-HY-3P-15, FH3X-8K-HY-3P-20, FH3X-8K-HY-3P-25, FH3X-8K-HY-3P-30, FH3X-8K-HY-3P-35	FH3X-10K-HY-3P-10, FH3X-10K-HY-3P-15, FH3X-10K-HY-3P-20, FH3X-10K-HY-3P-25, FH3X-10K-HY-3P-30, FH3X-10K-HY-3P-35
PV input parameters		
Max. input voltage [V <sub>DC</sub> ]	1000	
MPPT voltage range [V <sub>DC</sub> ]	200 - 850	
Max. input current [A <sub>DC</sub> ]	20/20/20	
Isc PV (Absolute Max.) [A <sub>DC</sub> ]	30/30/30	
AC output ratings		
Nominal voltage [V <sub>AC</sub> ]	3/N/PE~, 230/400	
Nominal frequency [Hz]	50	
Max. output current [A <sub>AC</sub> ]	11.6	14.5
Nominal output power [W]	8000	10000
Max. apparent output power [VA]	8000	10000
Power factor	0.8 (leading) - 0.8 (lagging)	

Models	FH3X-12K-HY-3P-10, FH3X-12K-HY-3P-15, FH3X-12K-HY-3P-20, FH3X-12K-HY-3P-25, FH3X-12K-HY-3P-30, FH3X-12K-HY-3P-35	FH3X-15K-HY-3P-10, FH3X-15K-HY-3P-15, FH3X-15K-HY-3P-20, FH3X-15K-HY-3P-25, FH3X-15K-HY-3P-30, FH3X-15K-HY-3P-35
PV input parameters		
Max. input voltage [V <sub>DC</sub> ]	1000	
MPPT voltage range [V <sub>DC</sub> ]	200 - 850	
Max. input current [A <sub>DC</sub> ]	20/20/20	
Isc PV (Absolute Max.) [A <sub>DC</sub> ]	30/30/30	
AC output ratings		
Nominal voltage [V <sub>AC</sub> ]	3/N/PE~, 230/400	
Nominal frequency [Hz]	50	
Max. output current [A <sub>AC</sub> ]	17.4	21.7
Nominal output power [W]	12000	15000
Max. apparent output power [VA]	12000	15000
Power factor	0.8 (leading) - 0.8 (lagging)	

Model	FH3X-8K-HY-3P-10, FH3X-10K-HY-3P-10, FH3X-12K-HY-3P-10, FH3X-15K-HY-3P-10	FH3X-8K-HY-3P-15, FH3X-10K-HY-3P-15, FH3X-12K-HY-3P-15, FH3X-15K-HY-3P-15	FH3X-8K-HY-3P-20, FH3X-10K-HY-3P-20, FH3X-12K-HY-3P-20, FH3X-15K-HY-3P-20
Battery parameters			
Battery module	FH10050		
Number of packs	2	3	4
Energy [kWh]	10.24	15.36	20.48
Nominal voltage [V <sub>DC</sub> ]	204.8	307.2	409.6



Product Service

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Model	FH3X-8K-HY-3P-25, FH3X-10K-HY-3P-25, FH3X-12K-HY-3P-25, FH3X-15K-HY-3P-25	FH3X-8K-HY-3P-30, FH3X-10K-HY-3P-30, FH3X-12K-HY-3P-30, FH3X-15K-HY-3P-30	FH3X-8K-HY-3P-35, FH3X-10K-HY-3P-35, FH3X-12K-HY-3P-35, FH3X-15K-HY-3P-35
Battery parameters			
Battery module	FH10050		
Number of packs	5	6	7
Energy [kWh]	25.60	30.72	35.84
Nominal voltage [V <sub>DC</sub> ]	512.0	614.4	716.8

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Scope and function assessment based on the rules for the application of equipment certificates for Power Park Modules (PPMs), as specified in the PTPIREE document.

Parameter	RfG: 2016	NC RfG: 2018	Type A	Type B	Type C	Type D	Result
Frequency range	13.1 a)	13.1 a), i	Y	-	-	-	Pass
Rate of change of frequency withstand capability (RoCoF) df/dt	13.1 b)	13.1 b)	Y	-	-	-	Pass
Remote ceasing active power	13.6	13.6	Y	-	-	-	Pass
Remote control of active power	14.2	14.2 b)	N/A	-	-	-	N/A
Power generation module operation mode in which the generated active power decreases in response to an increase in the system frequency above a specified value (LFSM-O)	13.2 (*)	13.2 a), b), f)	Y	-	-	-	Pass
Power generation module operation mode in which the generated active power increases as a result of the system frequency falling below a specified value (LFSM-U)	15.2 c)	15.2 c), i	N/A	-	-	-	N/A
Ability to withstand voltage dips for connections below 110 kV	14.3	14.3 a), i, b)	N/A	-	-	-	N/A
Ability to withstand voltage dips for connections above 110 kV	16.3	16.3 a), i, c)	N/A	-	-	-	N/A
Fast fault current contribution, symmetrical and asymmetrical faults	20.2 b), c) 21.3 e)	20.2 b), c) 21.3 e)	N/A	-	-	-	N/A
Recovery of active power after short circuit	20.3	20.3 a)	N/A	-	-	-	N/A

(\*) Article 13.2.(b) only applies to Type A PPMs in accordance with RfG:2016.