



Product Service

CERTIFICATE

No. B 090762 0093 Rev. 01

Holder of Certificate: Pylon Technologies Co., Ltd.

No.300, Miaoqiao Road, Kangqiao Town
Pudong New Area
201315 Shanghai
PEOPLE'S REPUBLIC OF CHINA

Certification Mark:



Product:

**Hybrid Energy Storage System
Force H3X Energy Storage System**

Model(s):

FH3X-3.6K-HY-1P-5, FH3X-3.6K-HY-1P-10, FH3X-3.6K-HY-1P-15,
FH3X-3.6K-HY-1P-20, FH3X-5K-HY-1P-5, FH3X-5K-HY-1P-10,
FH3X-5K-HY-1P-15, FH3X-5K-HY-1P-20, FH3X-6K-HY-1P-5,
FH3X-6K-HY-1P-10, FH3X-6K-HY-1P-15, FH3X-6K-HY-1P-20,
FH3X-8K-HY-1P-5, FH3X-8K-HY-1P-10, FH3X-8K-HY-1P-15,
FH3X-8K-HY-1P-20

Parameters:

See next pages

Tested according to:

IEC 62109-1:2010
EN 62109-1:2010
IEC 62109-2:2011
EN 62109-2:2011
IEC 62040-1:2017
IEC 62040-1:2017/AMD1:2021
EN IEC 62040-1:2019/A11:2021

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.:

50409240013124-01

Valid until:

2030-06-30

Date,

2025-07-01

(Zhengdong Ma)

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Model	FH3X-3.6K-HY-1P-5	FH3X-3.6K-HY-1P-10	FH3X-3.6K-HY-1P-15	FH3X-3.6K-HY-1P-20
Battery data				
Number of battery modules	1	2	3	4
System nominal capacity	5.12 kWh	10.24 kWh	15.36 kWh	20.48 kWh
Nominal Voltage	DC 102.4 V	DC 204.8 V	DC 307.2 V	DC 409.6 V
PV input				
Max. input voltage	DC 600 V			
MPPT voltage range	DC 80, ..., 550 V			
Max. input current	DC 16/16 A			
Isc PV (absolute maximum)	DC 25/25 A			
AC input/output				
Nominal grid voltage	1/N/PE AC 230 V			
Nominal grid frequency	50/60 Hz			
Max. (rated) continuous current to grid	AC 15.7 A			
Nominal active power to grid	3600 W			
Max. (rated) apparent power to grid	3600 VA			
Max. (rated) continuous current from grid	AC 23.5 A			
Nominal active power from grid	5400 W			
Max. (rated) apparent power from grid	5400 VA			
Power factor range	-0.8, ..., +0.8			
Back-up output				
Nominal output voltage	1/N/PE AC 230 V			
Max. (rated) continuous current	AC 15.7 A			
Nominal output frequency	50/60 Hz			
Max. (rated) apparent power	3600 VA			
Power factor range	-0.8, ..., +0.8			
General data				
Protective class	Class I			
Over voltage category	II (PV) / III (Grid, Back-up)			
Inverter Topology	Non-isolated			
Operation Temperature range	-10, ..., +55°C			
Ingress Protection	IP65			

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Model	FH3X-5K-HY-1P-5	FH3X-5K-HY-1P-10	FH3X-5K-HY-1P-15	FH3X-5K-HY-1P-20
Battery data				
Number of battery modules	1	2	3	4
System nominal capacity	5.12 kWh	10.24 kWh	15.36 kWh	20.48 kWh
Nominal Voltage	DC 102.4 V	DC 204.8 V	DC 307.2 V	DC 409.6 V
PV input				
Max. input voltage	DC 600 V			
MPPT voltage range	DC 80, ..., 550 V			
Max. input current	DC 16/16 A			
Isc PV (absolute maximum)	DC 25/25 A			
AC input/output				
Nominal grid voltage	1/N/PE AC 230 V			
Nominal grid frequency	50/60 Hz			
Max. (rated) continuous current to grid	AC 21.7 A			
Nominal active power to grid	5000 W			
Max. (rated) apparent power to grid	5000 VA			
Max. (rated) continuous current from grid	AC 32.6 A			
Nominal active power from grid	7500 W			
Max. (rated) apparent power from grid	7500 VA			
Power factor range	-0.8, ..., +0.8			
Back-up output				
Nominal output voltage	1/N/PE AC 230 V			
Max. (rated) continuous current	AC 21.7 A			
Nominal output frequency	50/60 Hz			
Max. (rated) apparent power	5000 VA			
Power factor range	-0.8, ..., +0.8			
General data				
Protective class	Class I			
Over voltage category	II (PV) / III (Grid, Back-up)			
Inverter Topology	Non-isolated			
Operation Temperature range	-10, ..., +55°C			
Ingress Protection	IP65			

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Model	FH3X-6K-HY-1P-5	FH3X-6K-HY-1P-10	FH3X-6K-HY-1P-15	FH3X-6K-HY-1P-20
Battery data				
Number of battery modules	1	2	3	4
System nominal capacity	5.12 kWh	10.24 kWh	15.36 kWh	20.48 kWh
Nominal Voltage	DC 102.4 V	DC 204.8 V	DC 307.2 V	DC 409.6 V
PV input				
Max. input voltage	DC 600 V			
MPPT voltage range	DC 80, ..., 550 V			
Max. input current	DC 16/16 A			
Isc PV (absolute maximum)	DC 25/25 A			
AC input/output				
Nominal grid voltage	1/N/PE AC 230 V			
Nominal grid frequency	50/60 Hz			
Max. (rated) continuous current to grid	AC 26.1 A			
Nominal active power to grid	6000 W			
Max. (rated) apparent power to grid	6000 VA			
Max. (rated) continuous current from grid	AC 39.1 A			
Nominal active power from grid	9000 W			
Max. (rated) apparent power from grid	9000 VA			
Power factor range	-0.8, ..., +0.8			
Back-up output				
Nominal output voltage	1/N/PE AC 230 V			
Max. (rated) continuous current	AC 26.1 A			
Nominal output frequency	50/60 Hz			
Max. (rated) apparent power	6000 VA			
Power factor range	-0.8, ..., +0.8			
General data				
Protective class	Class I			
Over voltage category	II (PV) / III (Grid, Back-up)			
Inverter Topology	Non-isolated			
Operation Temperature range	-10, ..., +55°C			
Ingress Protection	IP65			

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Model	FH3X-8K-HY-1P-5	FH3X-8K-HY-1P-10	FH3X-8K-HY-1P-15	FH3X-8K-HY-1P-20
Battery data				
Number of battery modules	1	2	3	4
System nominal capacity	5.12 kWh	10.24 kWh	15.36 kWh	20.48 kWh
Nominal Voltage	DC 102.4 V	DC 204.8 V	DC 307.2 V	DC 409.6 V
PV input				
Max. input voltage	DC 600 V			
MPPT voltage range	DC 80, ..., 550 V			
Max. input current	DC 16/16/16 A			
Isc PV (absolute maximum)	DC 25/25/25 A			
AC input/output				
Nominal grid voltage	1/N/PE AC 230 V			
Nominal grid frequency	50/60 Hz			
Max. (rated) continuous current to grid	AC 34.8 A			
Nominal active power to grid	8000 W			
Max. (rated) apparent power to grid	8000 VA			
Max. (rated) continuous current from grid	AC 52.2 A			
Nominal active power from grid	12000 W			
Max. (rated) apparent power from grid	12000 VA			
Power factor range	-0.8, ..., +0.8			
Back-up output				
Nominal output voltage	1/N/PE AC 230 V			
Max. (rated) continuous current	AC 34.8 A			
Nominal output frequency	50/60 Hz			
Max. (rated) apparent power	8000 VA			
Power factor range	-0.8, ..., +0.8			
General data				
Protective class	Class I			
Over voltage category	II (PV) / III (Grid, Back-up)			
Inverter Topology	Non-isolated			
Operation Temperature range	-10, ..., +55°C			
Ingress Protection	IP65			