ATTESTATO

**ATESTACIÓN** 

BESCHEINIGUNG

**ATTESTATION** 



# **Attestation of Conformity**

No. N8A 090762 0061 Rev. 00

Holder of Attestation:

on: Pylon Technologies Co., Ltd.

No. 73, Lane 887, Zu Chongzhi Road, Zhangjiang Hi-Tech Park 201203 Pudong, Shanghai PEOPLE'S REPUBLIC OF CHINA

Product:

# Batteries (Rechargeable Li-ion Battery)

This Attestation of Conformity is issued on a voluntary basis according to the Low Voltage Directive 2014/35/EU relating to electrical equipment designed for use within certain voltage limits. It confirms that the listed equipment complies with the principal protection requirements of the directive and is based on the technical specifications applicable at the time of issuance. It refers only to the particular sample submitted for conformity assessment. For details see: www.tuvsud.com/ps-cert

Test report no.:

64290223117801

Date,

2023-05-08

10

(Billy Qiu)

Page 1 of 2

This Attestation does not replace the regulatory EU Declaration of Conformity (DoC) and does not allow for CE marking. After preparation of the necessary documentation and establishing compliance to requirements of all applicable directives, the manufacturer may sign a DoC and apply the CE marking. The DoC is issued under the sole responsibility of the manufacturer.

CE TUV

TÜV SÜD Product Service GmbH • Ridlerstraße 65 • 80339 Munich • Germany

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**ATTESTATO** 

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**ATESTACIÓN** 

BESCHEINIGUNG

**ATTESTATION** 



# **Attestation of Conformity**

No. N8A 090762 0061 Rev. 00

Model(s):

### Force-H1-48/96-V2, Force-H1-48/144-V2, Force-H1-48/192-V2, Force-H1-48/240-V2, Force-H1-48/288-V2, Force-H1-48/336-V2, Force-H1-48/384-V2

#### Parameters:

Model:	Force -H1- 48/96 -V2	Force- H1- 48/144- V2	Force- H1- 48/196- V2	Force- H1- 48/240- V2	Force- H1- 48/288- V2	Force- H1- 48/336- V2	Force- H1- 48/384- V2
Battery input/output terminal parameters							
Battery type	type Li-ion(LFP)						
Rated capacity [Ah]				74			
Rated energy capacity [kWh]	7.10	10.65	14.20	17.76	21.31	24.86	28.41
Rated voltage [Vd.c.]	96	144	192	240	288	336	384
Battery voltage range [Vd.c.]	81~ 108	121.5~ 162	162~ 216	202.5~ 270	243~ 324	283.5~ 378	324~ 432
Nominal current [Ad.c.]	14.8						
Maximum charging/ discharging current [Ad.c.]	40						
Maximum charging/ discharging power [kW]	4.32	6.48	8.64	10.8	12.96	15.12	17.28
			General				
Ambient charging/discharging temperature range(°C)	-10 °C to 55 °C						
Protection class	I						
Ingress protection				IP55			
Operating altitude ra nge [m]	4000						

# Tested according to:

EN IEC 62040-1:2019/A11:2021

#### Page 2 of 2

This Attestation does not replace the regulatory EU Declaration of Conformity (DoC) and does not allow for CE marking. After preparation of the necessary documentation and establishing compliance to requirements of all applicable directives, the manufacturer may sign a DoC and apply the CE marking. The DoC is issued under the sole responsibility of the manufacturer.

# CE





No. B 090762 0052 Rev. 00

# Holder of Certificate: Pylon Technologies Co., Ltd.

No. 73, Lane 887, Zu Chongzhi Road, Zhangjiang Hi-Tech Park 201203 Pudong, Shanghai PEOPLE'S REPUBLIC OF CHINA

**Certification Mark:** 



**Product:** 

### Batteries (LFP Lithium Ion Energy Storage Battery System)

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 and certification regulations of TÜV SÜD Group have to be complied. For details see: www.tuvsud.com/ps-cert

Test report no.:

64280226040801

Valid until:

2027-11-17

Date,

2022-11-18

Hund John of

(Harry Zhang)



No. B 090762 0052 Rev. 00

Model(s):

Force-H1-48/96-V2, Force-H1-48/144-V2, Force-H1-48/192-V2, Force-H1-48/240-V2, Force-H1-48/288-V2, Force-H1-48/336-V2, Force-H1-48/384-V2

**Brand Name:** 

**PYLONTECH** 



**Parameters:** 

Nominal voltage:	Force-H1-48/96-V2: 96Vd.c.;
	Force-H1-48/144-V2: 144Vd.c.;
	Force-H1-48/192-V2: 192Vd.c.;
	Force-H1-48/240-V2: 240Vd.c.;
	Force-H1-48/288-V2: 288Vd.c.;
	Force-H1-48/336-V2: 336Vd.c.;
	Force-H1-48/384-V2: 384Vd.c.
Rated capacity:	74Ah

Tested according to:

IEC 62619:2017





No. B 090762 0065 Rev. 00

# Holder of Certificate: Pylon Technologies Co., Ltd.

No. 73, Lane 887, Zu Chongzhi Road, Zhangjiang Hi-Tech Park 201203 Pudong, Shanghai PEOPLE'S REPUBLIC OF CHINA

**Certification Mark:** 



**Product:** 

### Batteries (LFP Lithium Ion Energy Storage Battery System)

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 and certification regulations of TÜV SÜD Group have to be complied. For details see: www.tuvsud.com/ps-cert

Test report no.:

64280226040701

Valid until:

2028-04-27

Date, 2023-04-28

Stand Thurl

(Harry Zhang)



No. B 090762 0065 Rev. 00

Model(s):

Force-H1-48/96-V2, Force-H1-48/144-V2, Force-H1-48/192-V2, Force-H1-48/240-V2, Force-H1-48/288-V2, Force-H1-48/336-V2, Force-H1-48/384-V2

**Brand Name:** 

**Pylontech** 



Parameters:

Nominal voltage

Rated capacity

Force-H1-48/96-V2: 96Vd.c.; Force-H1-48/144-V2: 144Vd.c.; Force-H1-48/192-V2: 192Vd.c.; Force-H1-48/240-V2: 240Vd.c.; Force-H1-48/288-V2: 288Vd.c.; Force-H1-48/336-V2: 336Vd.c.; Force-H1-48/384-V2: 384Vd.c. 74Ah

Tested according to:

PPP 51094A:2022 VDE-AR-E 2510-50:2017





# EU Type Examination Certificate

Certificate Holder:

**Pylon Technologies Co., Ltd.** No. 73, Lane 887, Zu Chongzhi Road, Zhangjiang Hi-Tech Park 201203 Pudong, Shanghai PEOPLE'S REPUBLIC OF CHINA

Product Type: Short range device / SRD LFP Lithium-Ion Energy Storage System

Model(s):

Force-H1-48/96-V2, Force-H1-48/144-V2, Force-H1-48/192-V2, Force-H1-48/240-V2, Force-H1-48/288-V2, Force-H1-48/336-V2, Force-H1-48/384-V2

We, TÜV SÜD DANMARK ApS, as Notified Body number 2443, have examined the technical documentation and supporting evidence for the above listed equipment and found it to comply with the requirements of Annex III Module B of Radio Equipment Directive 2014/53/EU in relation to the following essential requirements covered by the examination.

<b>Essential Requirements:</b>	Article 3.1(b) in respect of EMC
	Article 3.2 in respect of the use of Radio Spectrum

This is based upon examination of the following Technical Data file. Please refer to the Annex for further technical details.

**Technical Documentation:** 

Pylon Force-H1-4896-V2 (v) RED TCF

Valid from:

2022-12-09

eter,

(Peter Jia)

Total pages: Page 1 of 3

This certificate has been issued in accordance with the TÜV SÜD Testing and Certification Regulations and constitutes page 1 of the combined Certificate and Annex.

The CE marking may be used on the equipment described above subject to the equipment meeting the compliance requirements of all applicable EU directives.

The conditions for the validity of this certificate are listed in the Annex. For further details related to this certification please contact BABT@tuvsud.com

REDK4 090762 0055 Rev. 00

TÜV SÜD DANMARK ApS • Strandvejen 125 • 2900 Hellerup • Denmark

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### Annex to EU-Type Examination Certificate



### Equipment Description

#### A LFP lithium-lon energy storage system with 2.4GHz WiFi

	∨ariant Difference	Model	HW Version	SW Version	
Original Variant		Force-H1-48/144-V2			
		Force-H1-48/96-V2	WiFi module: MW-3X020X-V42	ForceHB_H1_CMU	
		Force-H1-48/192-V2	Control PCB: MMCB_SP02_V30		
	All models have same and BMS but different	Force-H1-48/240-V2	Power PCB: MPSB_PV60_V20		
	battery module quantity	Force-H1-48/288-V2			
		Force-H1-48/336-V2			
		Force-H1-48/384-V2			

#### 1.1 Supported Functions and Features

#### 1.1.1 Non-radio features

Rated capacity: 74AH; Nominal voltage: 96V (Force-H1-48/96-V2), 144V (Force-H1-48/144-V2), 192V (Force-H1-48/192-V2), 240V (Force-H1-48/240-V2), 288V (Force-H1-48/288-V2), 336(Force-H1-48/36-V2), 384(Force-H1-48/384-V2)

#### 1.1.2 Radio features

Radio	Features	Operating Spectrum / Power	
SRD	IEEE 802.11 b/g/n20, adaptive	2412 – 2472 MHz / Max. 20dBm	

#### 1.2 Accessories

#### None

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#### Assessed Standards

Article 3.1(a)	Article 3.1(b)	Article 3.2
	EN 301 489-1 V2.2.3 EN 301 489-17 V3.2.4 EN IEC 61000-6-4:2019 EN IEC 61000-6-3:2021 EN IEC 61000-6-2:2019 EN IEC 61000-6-1:2019	EN 300 328 V2.2.2

### 3 Technical Documentation

#### 3.1 Technical Documentation

Technical documentation and supporting evidence were examined and found to comply with the EU-type examination requirements in conjunction with Annex V requirements of the directive.



### Annex to EU-Type Examination Certificate

#### 3.2 Declarations

DoC of Pylon Force-H2-9696-V2 (v) for RED, Draft Model list and difference for Pylon Force-H2-9696-V2 (v) for RED	Dated Issued	2022-11-09 2022-11-09
3.3 Strategic Documentation		
Risk Assessment of Pylon Force-H2-9696-V2 (v) for RED Conformity Assessment Principles of Pylon Force-H2-9696-V2 (v) for RED Compliance Strategy of Pylon Force-H2-9696-V2 (v) for RED	Issued Modified Issued	2022-11-09 2022-11-29 2022-11-09
3.4 Technical Compliance Documentation		
3.4.1 Article 3.1(b)		
64.771.22.60414.01	Issued	2022-11-17
3.4.2 Article 3.2		
64.771.22.60414.01-R	Issued	2022-11-17
4 Additional Information		

#### None

5

### **Conditions of Validity**

None

Signature:		Date:	2022-12-09
	( Peter Jia)		
On behalf of TÜV SÜD	DANMARK ApS		





No. B 090762 0060 Rev. 00

# Holder of Certificate: Pylon Technologies Co., Ltd.

No. 73, Lane 887, Zu Chongzhi Road, Zhangjiang Hi-Tech Park 201203 Pudong, Shanghai PEOPLE'S REPUBLIC OF CHINA

**Certification Mark:** 



### **Product:**

Batteries (Rechargeable Li-ion Battery)

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 and certification regulations of TÜV SÜD Group have to be complied. For details see: www.tuvsud.com/ps-cert

Test report no.:

64290223117801

Valid until:

2028-05-04

Date,

2023-05-05

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(Billy Qiu)



No. B 090762 0060 Rev. 00

Model(s):

### Force-H1-48/96-V2, Force-H1-48/144-V2, Force-H1-48/192-V2, Force-H1-48/240-V2, Force-H1-48/288-V2, Force-H1-48/336-V2, Force-H1-48/384-V2

#### **Parameters:**

Parameters:							
Model:	Force -H1- 48/96 -V2	Force- H1- 48/144- V2	Force- H1- 48/196- V2	Force- H1- 48/240- V2	Force- H1- 48/288- V2	Force- H1- 48/336- V2	Force- H1- 48/384- V2
	Battery input/output terminal parameters						
Battery type	type Li-ion(LFP)						
Rated capacity [Ah]				74			
Rated energy capacity [kWh]	7.10	10.65	14.20	17.76	21.31	24.86	28.41
Rated voltage [Vd.c.]	96	144	192	240	288	336	384
Battery voltage range [Vd.c.]	81~ 108	121.5~ 162	162~ 216	202.5~ 270	243~ 324	283.5~ 378	324~ 432
Nominal current [Ad.c.]	14.8						
Maximum charging/ discharging current [Ad.c.]	40						
Maximum charging/ discharging power [kW]	4.32	6.48	8.64	10.8	12.96	15.12	17.28
			General				
Ambient charging/discharging temperature range(°C)	-10 °C to 55 °C						
Protection class	Ι						
Ingress protection				IP55			
Operating altitude ra nge [m]	4000						

Tested according to:

IEC 62040-1:2017 IEC 62040-1:2017/AMD1:2021 EN IEC 62040-1:2019/A11:2021