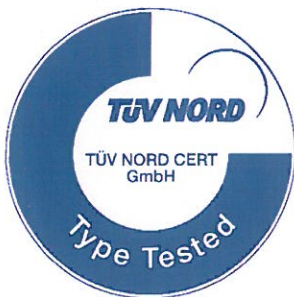


# CERTIFICATE

## Hangzhou Weimu Technology Co., Ltd.

Floor 3, Building 1, Yongle Countryside, Cangqian Street, Yuhang District, Hangzhou City, Zhejiang Province, 311121, P.R. China

is authorized to provide the product(s) mentioned below with the mark as illustrated:



Description of product(s) (details see Annex 2):

Secondary Lithium Battery

It is certified by TÜV NORD CERT GmbH that the product(s) described above has(have) been assessed according to the certification program mentioned below and found in compliance with the requirements of below specified certification fundamental(s). This certification is based on evaluation results as documented in test report(s) referenced below and production site(s) audit results as documented in factory inspection report(s) referenced in Annex 1. This certificate is valid in conjunction with these quoted report(s).

Certification program:	P31-VA-01 Rev. 02 04.20	
Certification fundamental(s):	IEC 62619:2017	
Registered no.:	44 780 21 406749 - 081	
Manufacturer and factory(-ies):	See Annex 1	
Test report no.:	492011670.001	Valid from: 2021-05-11
File no.:	PVP10035/20E-01	Valid until: 2026-05-10



TÜV NORD CERT GmbH  
Certification Body  
Energy Storage System



Essen, 2021-05-11

# ANNEX

Annex 1, Page 1 of 1

**to Certificate registration no. 44 780 21 406749 - 081**

**Manufacturer:**

**Hangzhou Weimu Technology Co., Ltd.**

Floor 3, Building 1, Yongle Countryside, Cangqian Street, Yuhang District,  
Hangzhou City, Zhejiang Province, 311121, P.R. China

**Factory(-ies):**

Factory :

**Hangzhou Weimu Technology Co., Ltd.**

Floor 3, Building 1, Yongle Countryside, Cangqian Street, Yuhang District,  
Hangzhou City, Zhejiang Province, 311121, P.R. China

Factory inspection report no.: 862010476.001

**Remark:**

Factory inspection is mandatory to be performed annually. Please refer to factory inspection report for detailed information.

A handwritten signature in blue ink, appearing to read "Shawee Uler".

**TÜV NORD CERT GmbH**  
**Certification Body**  
**Energy Storage System**

Essen, 2021-05-11



# ANNEX

Annex 2, Page 1 of 2

**to Certificate registration no. 44 780 21 406749 - 081**

**Description of product(s):**

Model type(s):	<b>LiFePO<sub>4</sub> Lithium-ion Battery:</b> VT48100E-A1, VT48100E-B1, VT48100E-P1, VT48100E-H1
Cell type:	C49-100Ah
Battery designation:	IFpP50/121/161/[15S]E/-10+30/95
Rated capacity:	100Ah
Nominal voltage:	48V
Watt-hour:	4800Wh
Recommended (rated) charge method:	20A (0.2C) charge to 54V CC, then charge to current ≤5A CV
Maximum charge current:	100A (1C)
Maximum charge voltage:	55.5V
Charge temperature range:	From 0°C to 60°C
Recommended (rated) discharge method:	20A (0.2C) discharge to 37.5V
Maximum discharge current:	100A (1C)
Discharge cut-off voltage:	37.5V
Discharge temperature range:	From -20°C to 60°C
Nominal weight:	39.0±0.5kg
Nominal dimension:	482±2mm x 438±2mm x 130±2mm
Storage temperature range:	From 0°C to 40°C



**TÜV NORD CERT GmbH**  
Certification Body  
Energy Storage System

Essen, 2021-05-11

# ANNEX

Annex 2, Page 2 of 2

to Certificate registration no. 44 780 21 406749 - 081

**Description of product(s):**

Model type(s):	<b>LiFePO<sub>4</sub> Lithium-ion Battery:</b> VT48100E-A2, VT48100E-B2, VT48100E-P2, VT48100E-H2
Cell type:	C49-100Ah
Battery designation:	IFpP50/121/161/[16S]E/-10+30/95
Rated capacity:	100Ah
Nominal voltage:	51.2V
Watt-hour:	5120Wh
Recommended (rated) charge method:	20A (0.2C) charge to 57.6V CC-CV, then charge to current ≤5A CV
Maximum charge current:	100A (1C)
Maximum charge voltage:	59.2V
Charge temperature range:	From 0°C to 60°C
Recommended (rated) discharge method:	20A (0.2C) discharge to 40V
Maximum discharge current:	100A (1C)
Discharge cut-off voltage:	40V
Discharge temperature range:	From -20°C to 60°C
Nominal weight:	42±0.5kg
Nominal dimension:	482±2mm x 438±2mm x 130±2mm
Storage temperature range:	From 0°C to 40°C

**Remark:**

For detailed product information, please refer to CDF (Constructional Data Form) in Annex 1 of test report.



## Certificate of conformity with the following European Directive

Registered No.:  
**NE1105220108**

### Electromagnetic Compatibility Directive 2014/30/EU

Reference of applicant	Date of application	File reference	Test report No.	Date of issue	Expiry date
-	02.12.2022	TWR2212003	TWR2212003 001	05.12.2022	04.12.2027

This is to certify that the following product complies to all the provisions of the above mentioned European Directive and the following standards:


- Product:** Secondary Lithium Battery
- Type designation:** VT48100E-A1, VE48100E-P1, VT48100E-A2,  
VE48100E-P2, VT48100E-P1, VT48100E-P2
- Serial No.:** Engineering Samples of VT48100E-A1, VE48100E-P1, VT48100E-A2,  
VE48100E-P2
- Applicant:** Hangzhou Vestwoods Technology Co., LTD  
Floor 3, Building 1, Yongle Countryside, Cangqian Street, Yuhang District,  
Hangzhou City, Zhejiang Province, 311121, P.R. China
- Standard(s):** EN IEC 61000-6-1:2019, EN IEC 61000-6-2:2019,  
EN IEC 61000-6-3:2021, EN IEC 61000-6-4:2019

This Certificate of conformity is based on the evaluation of sample(s) of the above mentioned product. It does not imply an assessment of the production and it does not permit the use of a mark of conformity or of a safety mark of the TÜV NORD Group. This is to certify that the tested sample is in compliance with the essential requirements referred to in Annex I of Council Directive 2014/30/EU. This certificate can be used by holder in connection with the EC declaration of conformity indicating conformity according to Electromagnetic Compatibility Directive.

  
Certification Department

Email: [info.pc@tuv-nord.com](mailto:info.pc@tuv-nord.com)  
[www.tuv-nord.com](http://www.tuv-nord.com)

The certificate can be verified by Online certification search in TÜV NORD Taiwan Co., Ltd. website: [www.tuvnord.com.tw](http://www.tuvnord.com.tw).  
TAF ISO 17065 accredited no. PC094 for certification.

 **The CE marking may be affixed on the product if all relevant and effective Directives are complied with.**  
The TÜV NORD Group is active in more than 70 countries globally, which including TÜV NORD CERT GmbH (NB 0044), TÜV NORD SYSTEMS GmbH & CO. KG (NB 0045), TÜV NORD BALTIC LTD (NB 1409), TÜV NORD Sweden AB (NB 2529), TÜV UK Ltd. (AB 0879)..etc.





## Certificate of conformity with the following European Directive

Registered No.:  
**NE1105200004**

### Electromagnetic Compatibility Directive 2014/30/EU

Reference of applicant	Date of application	File reference	Test report No.	Date of issue	Expiry date
-	21.02.2020	TWR2002025	TWR2002025 001	25.02.2020	24.02.2025

This is to certify that the following product complies to all the provisions of the above mentioned European Directive and the following standards:

<b>Product:</b>	Secondary lithium battery
<b>Type designation:</b>	VT48100E
<b>Serial No.:</b>	Engineering Sample
<b>Applicant:</b>	Hangzhou Weimu Technology Co., Ltd. Floor 3, Building 1, Yongle Countryside, Cangqian Street, Yuhang District, Hangzhou City, Zhejiang Province, 311121, P.R.China
<b>Standard(s):</b>	EN 61000-6-2: 2005, EN 61000-6-4: 2007/A1:2011



This Certificate of conformity is based on the evaluation of sample(s) of the above mentioned product. It does not imply an assessment of the production and it does not permit the use of a mark of conformity or of a safety mark of the TÜV NORD Group. This is to certify that the tested sample is in compliance with the essential requirements referred to in Annex I of Council Directive 2014/30/EU and demonstrated by means of procedure described in Annex II of Council Directive 2014/30/EU. This certificate can be used by holder in connection with the EC declaration of conformity indicating conformity according to Electromagnetic Compatibility Directive.



Certification Department

Email: [info.pc@tuv-nord.com](mailto:info.pc@tuv-nord.com)  
[www.tuv-nord.com](http://www.tuv-nord.com)  
TÜV NORD GROUP IN TAIWAN

The certificate can be verified by Online certification search in TUV Asia Pacific Ltd. Taiwan Branch website: [www.tuvnord.com.tw](http://www.tuvnord.com.tw).  
The certification system is based on ISO 17065.

 **The CE marking may be affixed on the product if all relevant and effective Directives are complied with.**   
The TÜV NORD Group is active in more than 70 countries in Europe, Asia, America and Africa, which including TÜV NORD CERT GmbH (NB 0044), TÜV NORD SYSTEMS GmbH & Co. KG (NB 0045), TÜV NORD BALTIK LTD (NB 1409), TÜV NORD Sweden AB (NB 2529), TÜV NORD Luxembourg s.à.r.l. (NB 2541),...etc. Headquarter of the TÜV NORD Group in Am TÜV 1, 30519 Hannover, Germany