



Product Service

C E R T I F I C A T E

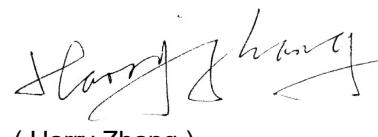
No. Z2 003364 0041 Rev. 00

Holder of Certificate: **Shanghai PYTES Energy Co., Ltd.**

Building 9, No. 3492, Jinqian Road
Guangming, Qingcun Town
Fengxian District
201406 Shanghai
PEOPLE'S REPUBLIC OF CHINA

Certification Mark:**Product:****Batteries
(Rechargeable Li-ion 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, Certification, Validation and Verification Regulations of TÜV SÜD Group have to be complied. For details see: www.tuvsud.com/ps-cert

Test report no.: 5061925025701-00**Valid until:** 2030-12-14**Date,** 2026-01-07
(Harry Zhang)

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Model(s): V5°, V5°α

Brand Name: Pytes

Pytes

Parameters:

| | |
|------------------|---|
| Category: | Stationary battery energy storage system |
| Chemistry: | LiFePO ₄ , Carbon, LiPF ₆ |
| Rated Capacity: | 100 Ah |
| Nominal Voltage: | 51.2 Vd.c. |
| Weight: | Approx.44 kg |

Supplementary information:

Restriction of substances:

| | |
|--|----------|
| Mercury by weight | <0.0002% |
| Cadmium by weight | <0.0002% |
| Lead by weight | <0.0004% |
| Restriction of substances - REACH (EC)1907/2006 Annex XVII | Pass |

Performance and durability declared by manufacturer:

| | |
|-------------------------------|----------------|
| Rated capacity | 100Ah |
| Internal resistance at 50%SOC | ≤30mΩ (50%SOC) |
| Power at 80%SOC | ≥3700W |
| Power at 20%SOC | ≥3600W |
| Energy round trip efficiency | ≥93% |

Safety of stationary battery energy storage systems:

| | |
|--------------------------------------|-----------|
| Thermal shock and cycling | Evaluated |
| External short circuit protection | Evaluated |
| Overcharge protection | Evaluated |
| Over-discharge protection | Evaluated |
| Over-temperature protection | Evaluated |
| Thermal propagation protection | Evaluated |
| Mechanical damage by external forces | Evaluated |
| Internal short circuit | Evaluated |

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| | |
|---|---|
| Thermal abuse | Evaluated |
| Fire test | Evaluated |
| Emission of gases | Evaluated |
| Assessment of possible safety hazards | Evaluated |
| Fire or explosion hazards mitigation instructions | Evaluated |
| <hr/> | |
| Labelling and marking: | Below items were evaluated: 1) Labelling and marking – Separate collection symbol 2) Labelling and marking – Cadmium or Lead information |
| <hr/> | |
| Information on the state of health and expected lifetime | Below items were evaluated: 1) Up-to-date data for the parameters for determining the state of health and expected lifetime have been contained in the battery management system; 2) Read-only access to the data for the parameters has been provided; 3) The battery management system has included a software reset function. |
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| Quality assurance of the production process | Technical documentation and quality system of the model(s) above have been assessed according to point 2 and point 5.2 of ANNEX VIII Part B of Regulation (EU) 2023/1542. |

**Tested
according to:**

PPP 51110B:2024