



Product Service

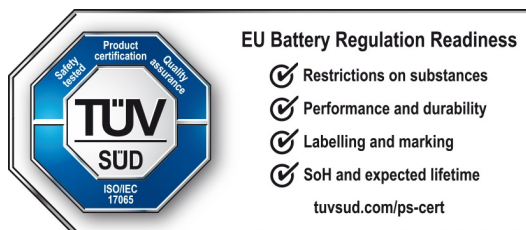
CERTIFICATE

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
Labelling and marking:	Below items were evaluated: 1) Labelling and marking – Separate collection symbol 2) Labelling and marking – Cadmium or Lead information
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.
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