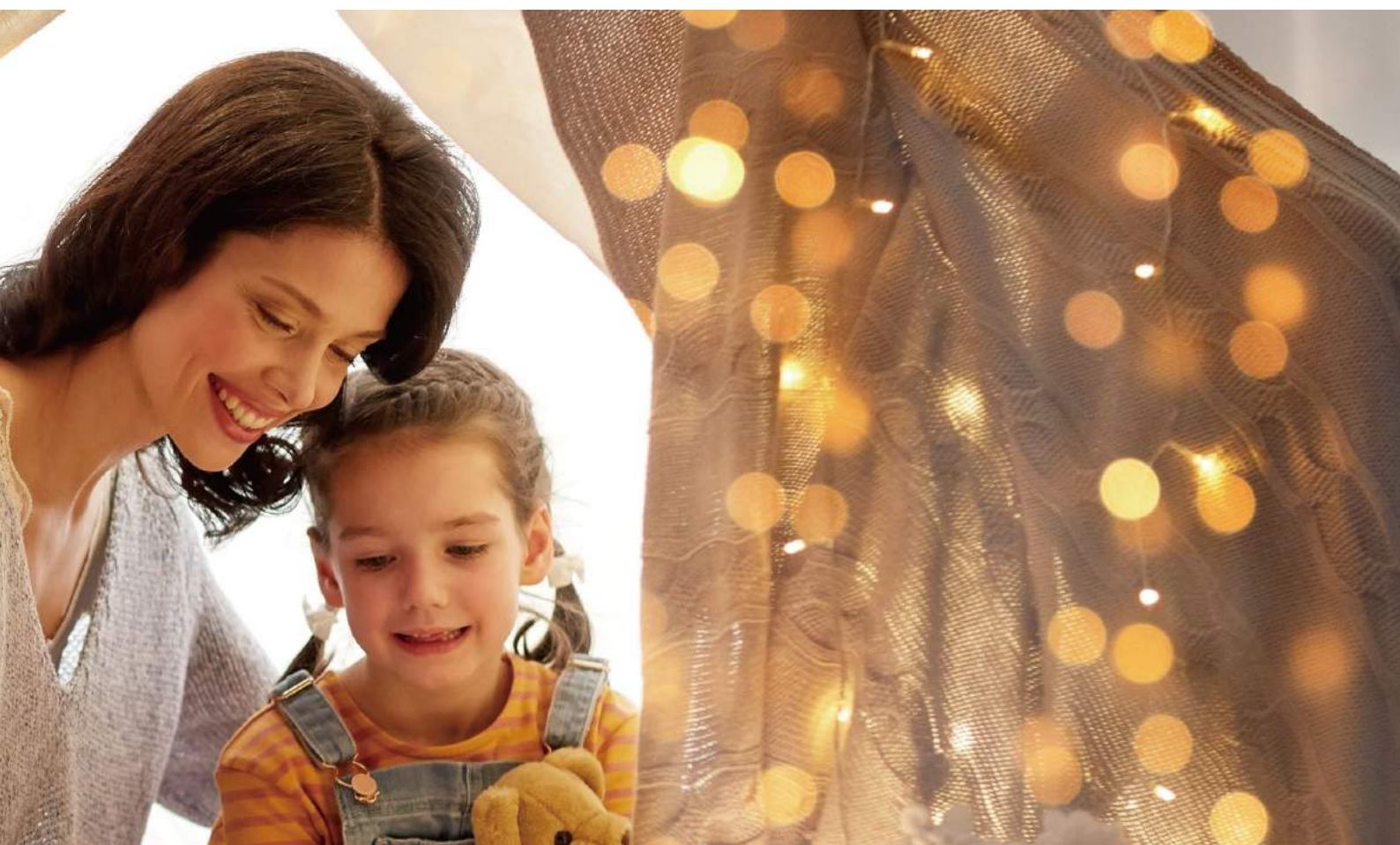




E-BOX 48100R

DATASHEET



About Us

Pytes

PYTES, a national high-tech enterprise founded in 2004, focuses on Lithium-ion battery solutions for e-bikes, e-motorcycles, 3C products, vacuum cleaners and energy storage systems, etc. Headquartered in Shanghai, PYTES has been expanding globally, setting up three production bases in Shanghai (China), Shandong (China) ,and Vietnam, two marketing & service centers in Europe and North America. PYTES is strong in R&D, with advanced laboratories certified by TUV, DEKRA, SGS & BV, etc.



\$125M
Total Asset

19 Years
Industry experience

1000+
Employee

\$177M
Turnover in 2022

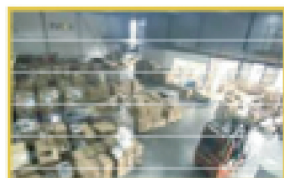
3.95Gwh
Annual capacity



Australian Agent
12 Redland Drive, Mitcham VIC 3132



Global Marketing & Service



Europe

PYTES EU office
(The Netherlands)

Factory in
Hungary

Factory in Shandong

North America

PYTES USA office
(LA)

PYTES USA warehouse
(Dallas)

PYTES office
in France
PYTES office
in Germany

China

Vietnam



Factory in Ho Chi Minh City

China



Headquarter&Factory
in Shanghai

Australia



Australian Distributor
in Melbourne

- Global pre-sales & after-sales services
- 7*24H support, Efficient feedback

Laboratory Introduction



Testing Labs



SGS



BV



TUV



DEKRA

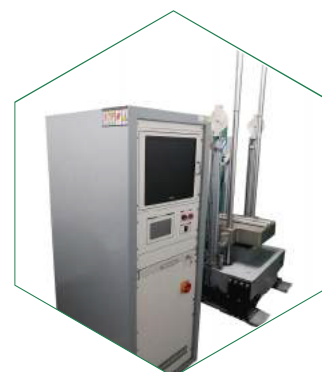
Mechanical Tests



Vibration Test



Drop Test



Shocking Test



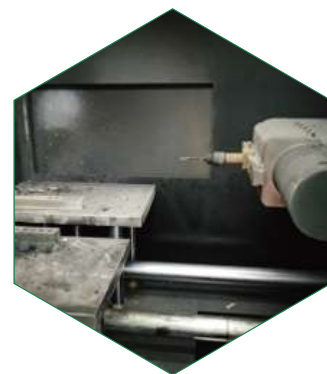
Safety Tests



Short circuit Test



Impact Test



Needle Test

Environmental Tests



Altitude Simulation



Thermal Shock

Electrical Tests



Qualification & Certification



ISO9001:2015



ISO14001:2015



RoHS



CB



UL



PSE



KC



REACH



UN38.3



GB31241



CU



IEC62133

TUV Certification of Cell

ZERTIFIKAT ◆ CERTIFICATE ◆ 認證證書 ◆ CERTIFICADO ◆ CERTIFICAT



Product Service

CERTIFICATE

No. Z2 104405 0002 Rev. 00

Holder of Certificate: Ruipu Energy Co., Ltd.

No.205, Binhai 6th Road, Konggang New District
Longwan District
325024 Wenzhou, Zhejiang
PEOPLE'S REPUBLIC OF CHINA

**Production
Facility(ies):**

104405

Certification Mark:



Product:

**Batteries
(Rechargeable Prismatic Lithium-ion Cell)**

Model(s):



Parameters:

Nominal voltage: 3.2Vd.c.
Rated capacity: 100Ah

**Tested
according to:**

IEC 62619:2017

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.:

64280206015801

Valid until:

2025-08-27

Date,

2020-08-28

(Harry Zhang)

EESS Conformity Certification



Adding Value to Evaluation



Certificate No.: EESS-220862-0

CERTIFICATE OF SUITABILITY

Certificate Holder: Astrum Energy Pty Ltd
L36, Phillip Governor Tower, 1 Farrer Pl.
Sydney, NSW 2000
AUSTRALIA

Regulatory Definition: Non-declared/ Out of Scope
Product Type: Li-Ion Battery for Energy Storage
Trade Name: Pytes
Model No(s): E-BOX 48100R
Ratings: Nominal Voltage: 51.2Vdc Rated: 100Ah Class I IP20 Ambient Max 35°C
Charge/Discharge Current/ Power: 50A/2560W.

Standard(s): IFC 62619:2017
Conditions: Indoor use, to be installed by licenced professional in restricted access as per Manufacturer's recommendation.

Required marking: The Regulatory Compliance Mark (RCM) in accordance with its conditions of use as set out in the latest edition of AS/NZS 4417.1.

Date of Issue: 23 November 2022
Valid until: 22 November 2027

Conformity Certification Services Pty Ltd as accredited by JAS-ANZ under ISO/IEC 17065 certifies that the Electrical Equipment as described on this certificate complies with the minimum essential safety requirements for which the application has been made.



For and on behalf of
Conformity Certification Services Pty Ltd
trading as EESS Conformity Certification

Suite 3, 695 The Horsley Drive, Smithfield, NSW 2164, AUSTRALIA
www.eessconformity.com






www.jas-anz.org/register

Page 1 of 1
Issued 2022-03

Qualification & Certification

TUV Certification of Battery

		Ref. Certif. No. SG PSB-BT-02972
IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT (IECEE) CB SCHEME		
CB TEST CERTIFICATE		
Product	Batteries (Li-ion Battery)	
Name and address of the applicant	Shanghai PYTES Energy Co., Ltd. No. 3492 Jinqian Road Fengxian District 201406 Shanghai PEOPLE'S REPUBLIC OF CHINA	
Name and address of the manufacturer	Shanghai PYTES Energy Co., Ltd. No. 3492 Jinqian Road, Fengxian District, 201406 Shanghai, PEOPLE'S REPUBLIC OF CHINA	
Name and address of the factory	Shanghai PYTES Energy Co., Ltd. No. 3492 Jinqian Road, Fengxian District, 201406 Shanghai, PEOPLE'S REPUBLIC OF CHINA	
Ratings and principal characteristics	Nominal voltage: 51.2Vd.c. Rated capacity: 100Ah	
Model/type Ref.	E-BOX 48100R	
A sample of the product was tested and found to be in conformity with	IEC 62619:2017	
as shown in the Test Report Ref. No. which forms part of this certificate	085-282160216-000	
Page 1 of 1 This CB Test Certificate is issued by the National Certification Body		
CBS 003364 0008 Rev. 00 Date, 2021-12-23		
 (Harry Zhang)		
TÜV SÜD PSB Pte Ltd 15 International Business Park TÜV SÜD @ IBP Singapore 609937		PSB Singapore

E-BOX-48100R



Introduction

E-BOX series, the new generation LFP battery for home energy storage system. It provides safe, well-designed and high-performance standard LFP battery pack for you. The battery pack is compact, easy to install, free of maintenance, and could be deployed to the building block of energy storage system by being assembled in parallel. It is widely applied in home applications, small commercial and industrial energy storage system as well as Telecom stations.

Features



Self-Consumption
store excess energy generated by solar panels and use it whenever needed



Back-Up Power Supply
provide emergency power supply during grid outage



Electricity Bills Reduction
charge the battery during off-peak period and discharge the battery during peak period



Smart Energy Management
measure, monitor and manage the system in real-time
optimize the system life span by intelligent algorithms



Longest Life and Highest Safety
more than 6000 cycles @90%DOD

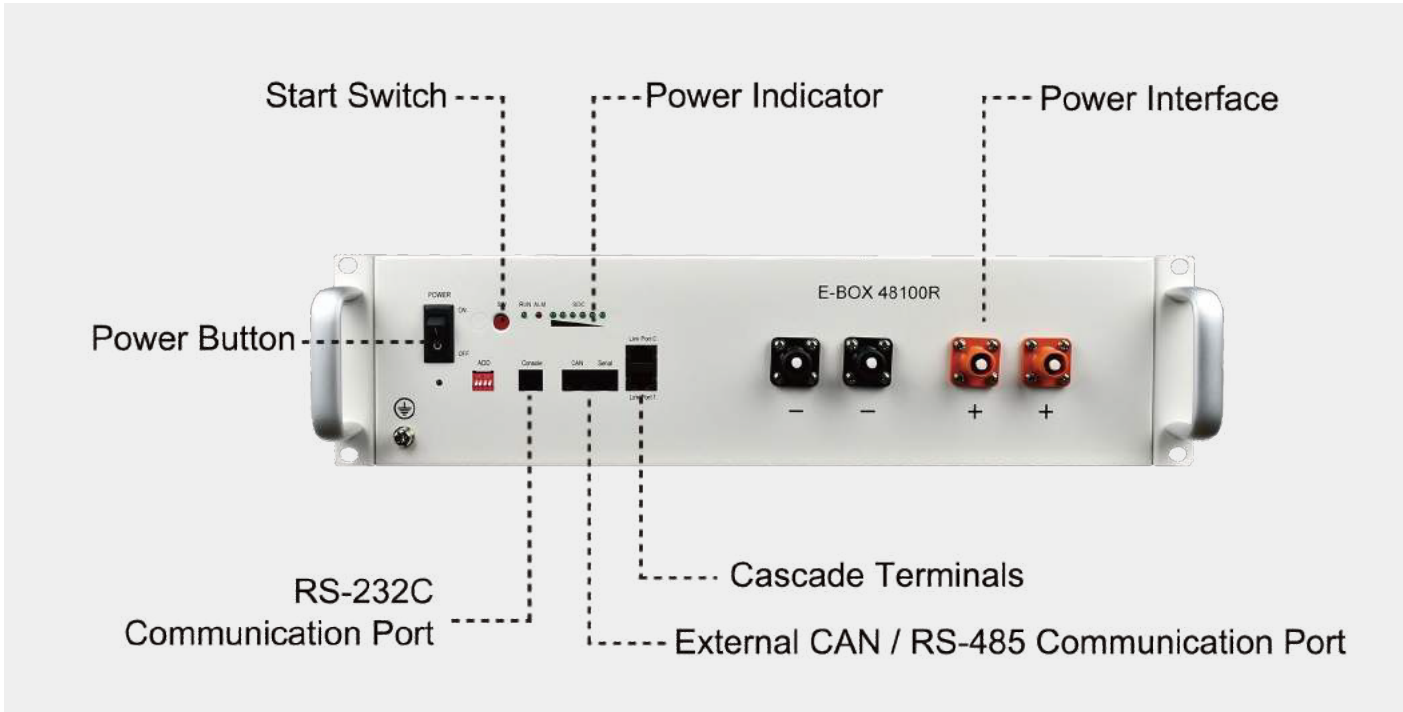


Wide Compatibility
compatible with 16 mainstream inverters in the market

Technical Specifications

Battery Model	E-BOX 48100R
Chemistry	LFP
Nominal Voltage	51.2V (Range: 47.5V ~57.6V)
Rated DC Power	2.5kWh
Nominal Capacity	100Ah
Nominal Energy	5.12kWh
Unit Dimension	L440mm* W620mm* H117mm (2.6U)
Unit Weight	51kg
Standard Charge Current	50A
Maximum Charge Current	50A
Standard Discharge	50A
Maximum Discharge Rate	50A
Round-Trip Efficiency	≥95%
Communication Protocol	RS232, RS485, CAN
Cycle Life	≥6000cycles
Calendar Life	≥10years
Ambient Temperature	0°C~35°C
Depth of Discharge(DOD)	90%
Certificate	CE, IEC 62619, UL 1973, UL9540A, EESS (by UL 1973)

Operation Panel





SHANGHAI PYTES ENERGY CO., LTD

Add: No.3492 Jinqian Road, Fengxian District, Shanghai, China

pytesess@pytesgroup.com

K2 Battery Pty Ltd

Add: 12A Redland Drive, Mitcham VIC 3132 Australia

gary@k2battery.com.au



K2 BATTERY



PYTES ENERGY