

# Battery Product Technical Evidence

Evidence of battery product meeting the Solar Victoria  
Approved Battery List criteria.

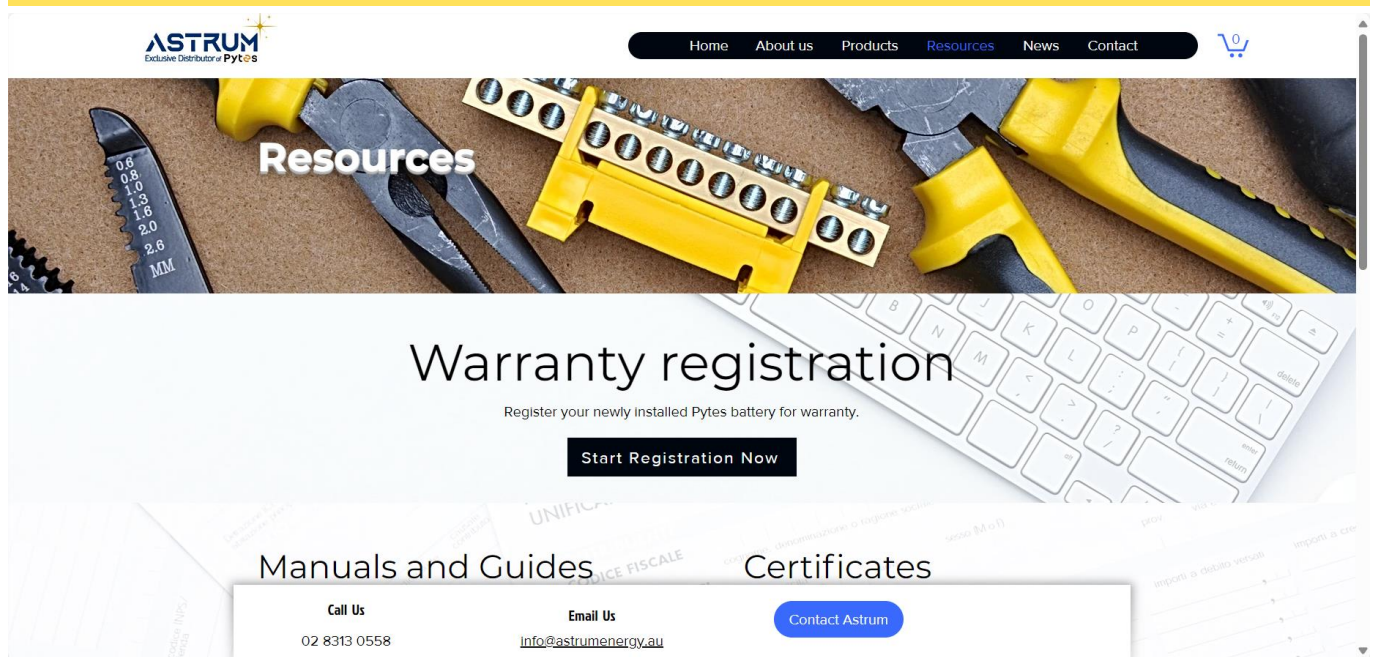
1. Remote registration
2. Remote configuration
3. Cybersecurity

## Original equipment manufacturer details

<b>Company name:</b>	Shanghai PYTES Energy Co., Ltd.
<b>Company address:</b>	No. 3492, Jinqian Road, Fengxian District, Shanghai, China
<b>Telephone number:</b>	+86 21 57475800
<b>E-mail address:</b>	ess_support@pytesgroup.com
<b>Web:</b>	<a href="https://www.pytesgroup.com/">https://www.pytesgroup.com/</a>

# 1. Remote Registration

Our battery product can be registered on our official website. The registration link is [Resources | Astrum Australia \(pytesaustralia.au\)](#). Users can register their batteries by completing the required information in this online form and submitting it manually. The picture below shows what the online portal looks like.



Once the form is received, the warranty for the battery is activated, and the battery's information is recorded in our online database. Additionally, remote configuration is enabled.

## 2. Remote Configuration

The battery connects to the internet through a WIFI module. The picture below shows the technical data sheet of the WIFI module.



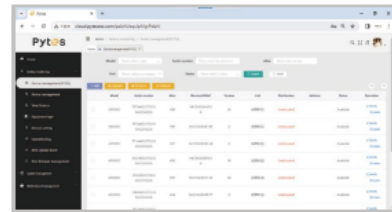
## Smart Monitor feature

- Real-time Monitoring
- Data Visualization
- Remote Upgrading
- Error Detection
- Alarm Notification



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WD01

## WEB/APP



## Diagram

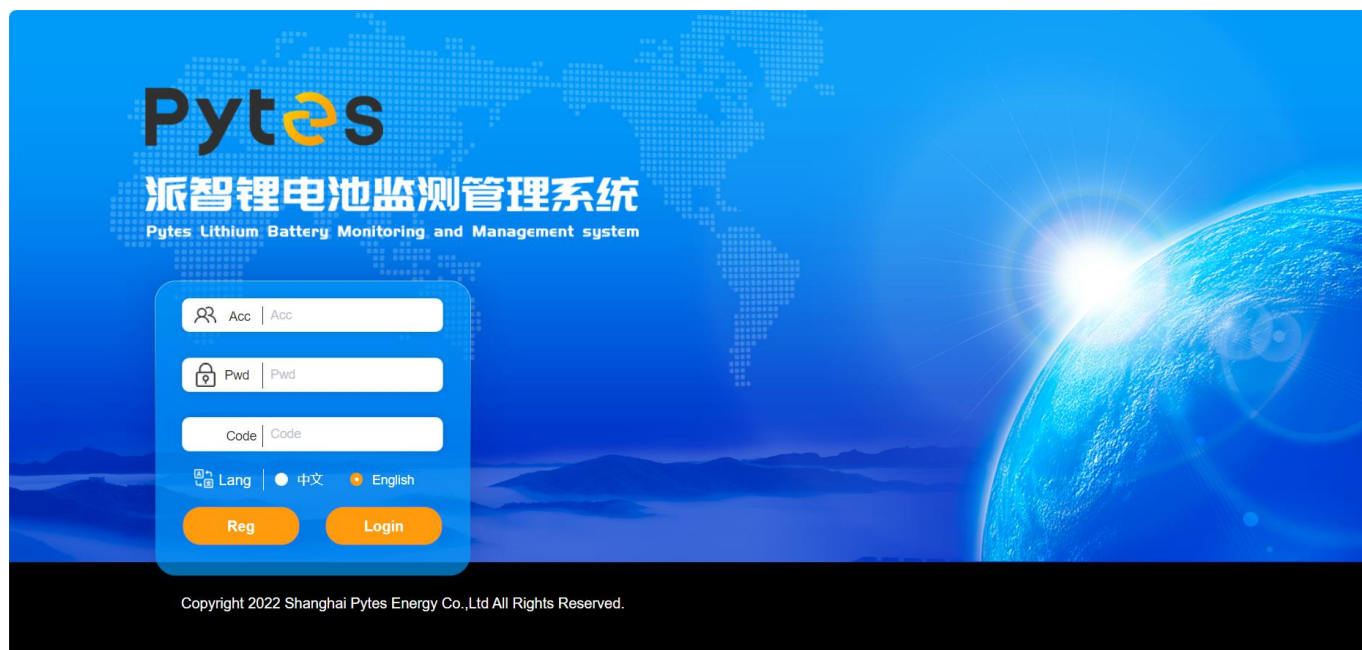


## Parameters

Type	Parameters	Data
Wifi	Frequency Transmit Power Antenna Type	2.412GHz-2.472GHz 802.11b: +18 dBm±2dBm(@11Mbps) 802.11g: +16 dBm±2dBm (@54Mbps) 802.11n: +15 dBm±2dBm (@144Mbps) External Antenna
Bluetooth	Standard Frequency Range Transmit Power	BLE4.2 2.402GHz-2.48GHz 7.17dBm
Hardware	Dimensions Weight Interface Operating Voltage Power Supply Indicator Lights	76.2x68x35mm 0.12kg RS485 DC4.5V-5.5V(USB-C)    DC11.1V-13.2V(POE) 0.4W Dongle to Battery Indicator    Router Connection Indicator
Software	Data Transmission Platform	cloud.pytesess.com

Once the battery is registered online, we can access to the battery through our online battery monitoring and management system. The picture below shows what the online portal looks like.

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The battery monitoring and management system can update battery's firmware and set up parameters through remote operations on the website.

### 3. Cybersecurity

The WIFI module requires registration and certification during the initialization process to be activated. Each WIFI module has a unique username and password located on the bottom of the module, which are used during the initialization process. The registration system is designed to effectively protect against electronic intrusion and tampering by unauthorised parties. The picture below shows the registration and certification processes.

#### 2 Installation and Registration

##### 2.1 Installation

Connect the WIFI Dongle to RS485 port of battery with a communication cable, RJ45 terminals, standard pin sequence.

- Inverters, i.e. DEYE, SRNE, GROWATT, Voltronic, Magarevo, will not be able to communicate with battery when WIFI Dongle is connected to battery due to occupation of the RS485 port.
- E-Box 48100R released from Dec. 2023 supports powering to dongle through battery RS485 port. An external power source is required to power the WIFI dongle through Type C port of the WIFI Dongle when working with an earlier E-Box 48100R version. Please contact Pytes if you are unsure of your battery version before purchase.



Table 1 WIFI module connection (R-C-MCU-V1.0) powered by External Device



Table 2 WIFI module connection (R-C-MCU-V2.0) powered by battery

##### 2.2 Registration

Scan the QR codes below with your smart phone to install the APP.



iOS



Android

##### 2.3 Network Configuration through APP

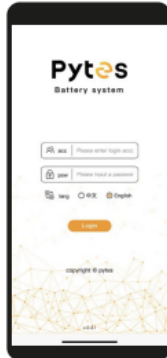
Turn on Bluetooth and Wifi function on your smart phone and connect it to a valid 2.4G Wifi.

Follow below steps to complete network configuration.

- User name and password are on bottom of Dongle.



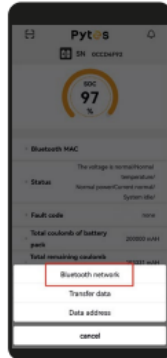
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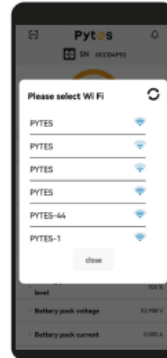
Step 1-Sign in APP



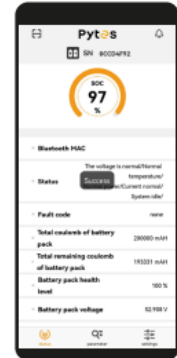
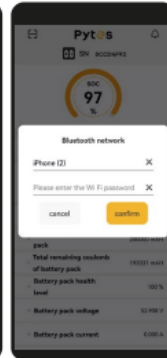
Step 2 - Scan QR code on Dongle



Step 3 - Click Bluetooth Network



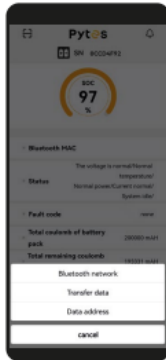
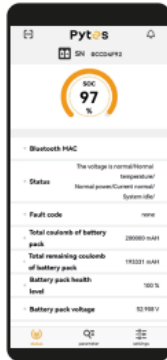
Step 4 - Connect to a valid 2.4G Wifi



Network Configuration Complete!

The bluetooth light on WIFI Dongle will be on, telling network configuration is complete. If the light flickers, please repeat above process.

- Network configuration is required at the initial only thus it will be automatically connected after powering on. Your battery information will be displayed on smart phone after network configuration.



Remarks: Scan Dongle QR code and click Transfer data to update battery information

If you have any technical queries, please contact us and provide the following information:

1. Product model and serial number of WIFI Dongle
2. Product model and serial number of connected battery