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## DGFTB PA5278U-1BRS

# DGFTB PA5278U-1BRS Laptop Battery User Manual

Replacement Battery for Toshiba Tecra X40 and Portege X30 Series

## 1. PRODUCT OVERVIEW

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The DGFTB PA5278U-1BRS is a high-quality replacement Li-ion battery designed for specific Toshiba and Dynabook laptop models. This manual provides essential information for safe and effective use, installation, and maintenance.



Image: DGFTB PA5278U-1BRS laptop battery with its retail packaging, highlighting quality and service.

- **Battery Type:** Li-ion
- **Voltage:** 11.4V
- **Capacity:** 48Wh / 4080mAh
- **Compatible Part Numbers:** PA5278U-1BRS, PT28U-0LN03X, PT274U-01N001

PA5278U-1BRS

Voltage: 11.4V

Capacity: 48Wh/4080mAh



Image: Close-up view of the battery's label, showing model number, voltage, and capacity.

## 2. COMPATIBLE LAPTOP MODELS

This battery is compatible with a wide range of Toshiba and Dynabook laptop models. Please verify your laptop's model number against the list below to ensure compatibility.

### For TOSHIBA Portege X30 Series:

- Portege X30-D
- Portege X30-D-10L, Portege X30-D-10M
- Portege X30-E
- Portege X30-E-10G, Portege X30-E-10U
- Portege X30-F-15U, Portege X30-F1352

### For TOSHIBA Tecra X40 Series:

- Tecra X40-D
- Tecra X40-D-10E
- Tecra X40-E-013, Tecra X40-E-108
- Tecra X40-F, Tecra X40-F-10D

### For DYNABOOK Portege X30-F Series:

- Portege X30-F-10L, Portege X30-F-10N

## 3. FEATURES AND QUALITY ASSURANCE

The DGFTB battery is engineered with high-quality components to ensure reliable performance and safety.

- **Grade A Cells:** Utilizes high-quality cells to minimize the risk of battery leakage and ensure stable power output.

- **Built-in Circuit Protection:** Integrated protection mechanisms enhance safety during use and extend the battery's lifespan.
- **Gold-plated Connector:** Features a gold-plated connector for durable and stable output.
- **Precise Hole Position:** Designed with precise hole positions for secure fitting.
- **Durable Materials:** Constructed with composite materials, high temperature resistance, and corrosion resistance.

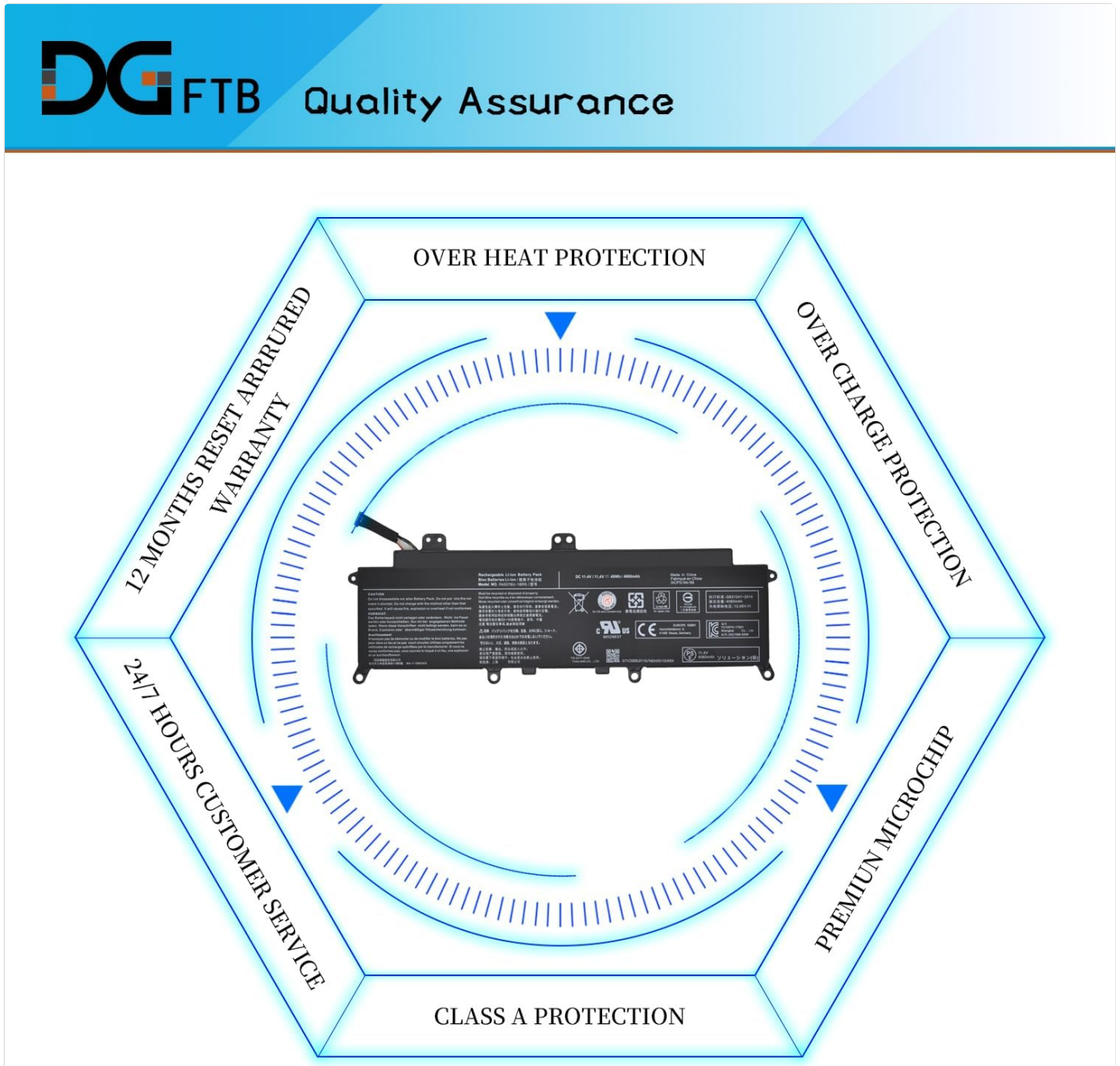
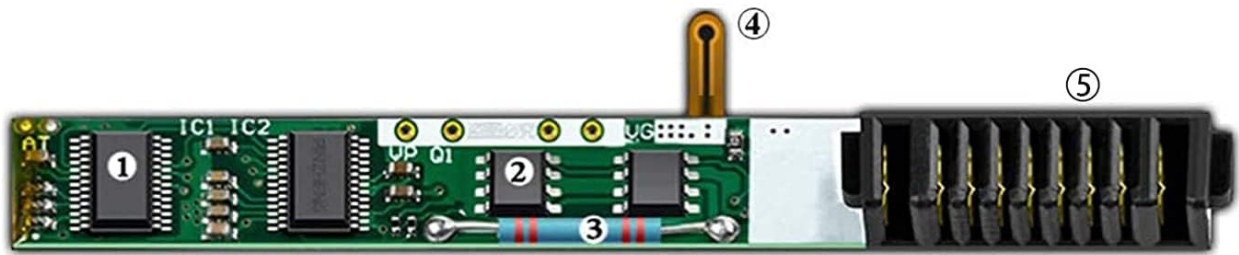


Image: Diagram illustrating the quality assurance features including over-heat protection, over-charge protection, premium microchip, and Class A protection.



- |                    |                           |
|--------------------|---------------------------|
| 1. Main chip       | 4. Temperature sensing    |
| 2. Protection chip | 5. Conductor copper sheet |
| 3. Resistance      |                           |



- Fast charging
- Stable output
- Longer discharge time
- Low power consumption
- Cycle discharge more than 500 times

Image: Illustration of the battery's internal components (main chip, protection chip, resistance, temperature sensing, conductor copper sheet) and benefits such as fast charging, stable output, longer discharge time, low power consumption, and over 500 discharge cycles.

## 4. INSTALLATION GUIDE

### Initial Installation and Calibration:

1. **Preparation:** Before beginning, ensure your laptop is powered off and disconnected from any power source. It is recommended to wear anti-static gloves to prevent damage from static electricity.
2. **Access Battery Compartment:** Carefully open your laptop's back panel or battery compartment. Refer to your laptop's specific service manual for detailed instructions on accessing the battery.
3. **Remove Old Battery:** Disconnect the old battery's connector from the motherboard. Unscrew any retaining screws and gently lift the old battery out.
4. **Install New Battery:** Place the new DGFTB battery into the compartment, ensuring it aligns correctly with the mounting points. Secure it with any screws removed earlier.
5. **Connect Battery:** Reconnect the battery's cable firmly to the motherboard. Ensure the interface is fully connected.
6. **Reassemble Laptop:** Carefully close and secure the laptop's back panel.

## 7. Initial Calibration (Important):

- After installation, connect the AC adapter and fully charge the battery to 100%.
- Once fully charged, disconnect the AC adapter and use the laptop on battery power until the battery discharges to 5% (do not let it discharge to 0% and shut down).
- Reconnect the AC adapter and charge the battery to 95%.
- Repeat this discharge-charge cycle 3-4 times to calibrate the new battery and optimize its performance.



Image: Visual representation of a laptop battery being installed, with various screwdrivers shown, indicating the need for tools.



Image: Detailed views of the battery's gold-plated connector and a fixed position mounting point, emphasizing precise design for secure installation.

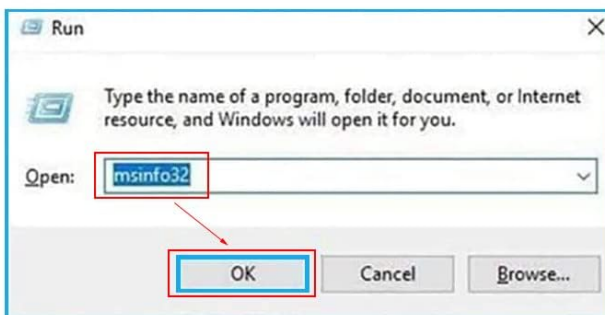
## 5. FINDING YOUR LAPTOP MODEL

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To ensure you have the correct battery or for troubleshooting, it's important to know your laptop's exact model number. Here's how to find it on Windows:

1. **Step 1:** Press the **Windows key + R** simultaneously to open the Run dialog box.
2. **Step 2:** In the Run dialog box, type **msinfo32** and click **OK**. This will open the System Information window.
3. **Step 3:** In the System Information window, locate the "System Model" entry. The value next to it is your laptop's model number.

Step 1 :  
Press **windows+ R**



Step 2:  
Type **msinfo32**, and Click OK

Step 3:  
Find **System Model**  
in the pop-up window

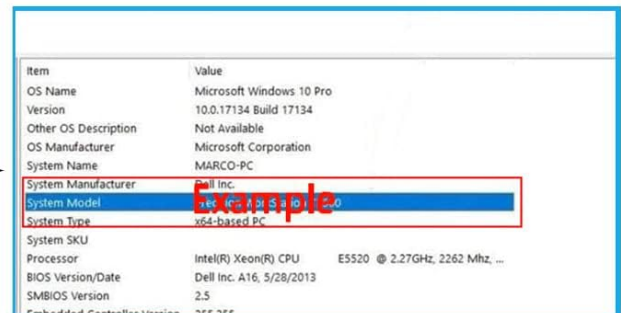


Image: Step-by-step visual guide on how to find your laptop's model number using the 'msinfo32' command in Windows.

## 6. MAINTENANCE AND CARE

Proper care can extend the life and performance of your DGFTB laptop battery:

- **Regular Calibration:** Perform the discharge-charge calibration cycle (as described in Section 4) every 2-3 months to maintain battery accuracy.
- **Avoid Extreme Temperatures:** Do not expose the battery to extreme heat or cold. Optimal operating temperature is between 10°C and 35°C (50°F and 95°F).
- **Storage:** If storing the battery for an extended period, charge it to about 50-60% and store it in a cool, dry place. Recharge it to 50-60% every few months.
- **Avoid Full Discharge:** Do not consistently drain the battery to 0%. This can reduce its lifespan.
- **Clean Contacts:** Periodically clean the battery contacts with a dry cloth to ensure good connection.

## 7. TROUBLESHOOTING

If you encounter issues with your new battery, consider the following common solutions:

Problem	Possible Cause	Solution
Battery not recognized/charging	Loose connection, driver issue, or initial calibration needed.	Ensure the battery connector is fully seated. Reinstall the battery. Perform the initial calibration cycle (Section 4). Update or reinstall battery drivers in Device Manager.
Short battery life	Improper calibration, high power consumption settings, or background applications.	Perform battery calibration. Adjust power settings to a balanced or power-saver mode. Close unnecessary background applications. Check for system updates.
Battery indicator inaccurate	Battery not calibrated.	Perform battery calibration (Section 4).

If issues persist after trying these steps, please contact DGFTB customer support.

## 8. SPECIFICATIONS

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Attribute	Detail
Brand	DGFTB
Model Number	PA5278U-1BRS (also X3PH0)
Battery Type	Lithium Ion (Li-ion)
Voltage	11.4V
Capacity	48Wh / 4080mAh
Item Weight	13.6 ounces
Package Dimensions	13.6 x 4.3 x 1 inches
Manufacturer	Foshan Eurasia Energy Technology Co., Ltd.
Date First Available	November 1, 2023

## 9. WARRANTY AND SUPPORT

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DGFTB stands behind the quality of its products. This battery comes with a 12-month reset warranty.

- **Warranty Period:** 12 Months
- **Customer Service:** 24/7 hours customer service is available for any inquiries or support needs.

For technical assistance, warranty claims, or any other questions, please contact DGFTB customer support through the

platform where you purchased the product or visit the official DGFTB store page on Amazon:

**Visit the DGFTB Store on Amazon**



Image: Visuals indicating available customer support and a channel for questions.

## **10. PRODUCT APPLICATION**

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The DGFTB PA5278U-1BRS battery is designed to provide reliable power for your compatible laptop, supporting various daily activities:

## GIVE YOUR BEST BATTERY LIFE EXPERIENCE



Image: Depicts the battery's suitability for various uses such as entertainment (gaming), office work, and leisure activities.

- **Entertainment:** Enjoy movies, games, and multimedia content without constant power connection.
- **Office Work:** Maintain productivity during meetings, commutes, or when working remotely.
- **Leisure:** Browse the web, read, or connect with friends and family on the go.