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DGFTB RC30-0248

DGFTB RC30-0248 Laptop Battery User Manual

Model: RC30-0248

1. Introduction

This manual provides detailed instructions for the safe and effective use of your DGFTB RC30-0248 laptop battery. This high-quality replacement battery is designed to provide reliable power for compatible Razer Blade Advanced 15 series laptops.

Compatible Models:

- Razer Blade 15 Advanced 2018, 2019, 2020, 2021 series
- Razer Blade 15 Advanced (i7-8750H/GTX1060/GTX1070/RTX2060/RTX2070/RTX2080)
- Specific models: RZ09-02385, RZ09-02386, RZ09-02486, RZ09-02386E91, RZ09-02386E92, RZ09-0288, RZ09-02886, RZ09-02886E92, RZ09-02887, RZ09-02888, RZ09-02887E92, RZ09-0301, RZ09-03017, RZ09-03018, RZ09-0301x, RZ09-03137, RZ09-03138, RZ09-03137E02
- Razer Blade 15 Studio Edition RZ09-03135, RZ09-03135EM3-R3U1
- Razer Blade 15 Advanced 2020 RTX 2070 Max-Q (i7-10875H) models: RZ09-0330, RZ09-0330x, RZ09-03304, RZ09-03304x, RZ09-03305, RZ09-03305x, RZ09-03305E43, RZ09-03304E42, RZ09-03305E53, RZ09-0330QEM3
- Razer Blade 15 Advanced 2021 RTX 3070/3080 (i7-10750H) models: RZ09-0367, RZ09-0367x, RZ09-0367BEC3, RZ09-0367CEC3, RZ09-0367CE53, RZ09-0409

2. Safety Information

Please read and understand all safety precautions before installing or using the battery. Failure to follow these instructions may result in fire, electric shock, or other injuries.

- Do not expose the battery to temperatures over 65°C (149°F).
- Do not disassemble, crush, puncture, or short-circuit the battery.
- Keep the battery away from fire and water.
- If the battery swells or leaks, discontinue use immediately.
- Dispose of used batteries according to local regulations.
- Only use the specified charger for this battery.

3. Specifications

Feature	Detail
Battery Type	Rechargeable Li-ion Battery Pack
Model Number	RC30-0248
Voltage	15.4V
Capacity	80Wh / 5209mAh
Limited Charge Voltage	17.6V
Acquisition Standard	GB 31241-2014
Dimensions (Approx.)	Length: 13.82 in, Width: 3.82 in, Thickness: 0.28 in
Item Weight	14.4 ounces
Cell Composition	Lithium Ion

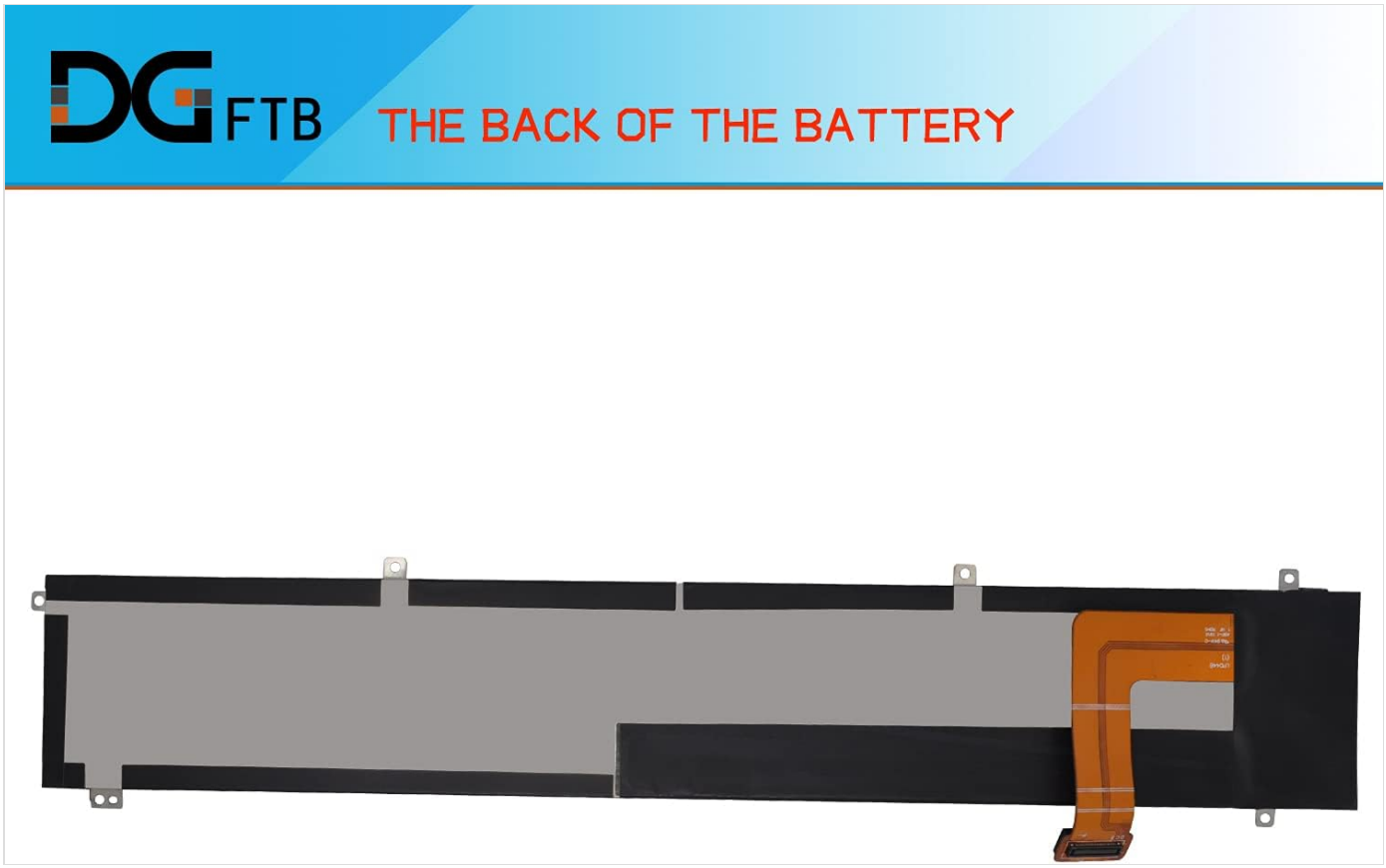


Figure 3.1: Battery Dimensions

4. Installation Guide

Before beginning the installation, 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.

1. **Prepare Your Laptop:**
   Carefully turn your laptop over and locate the screws that secure the back panel. Use an appropriate screwdriver (often a Torx or Phillips head, a screwdriver is included with the battery) to remove these screws.



Figure 4.1: Battery and Included Screwdriver

2. **Remove the Back Panel:**
   Gently pry open the back panel of your laptop. Be cautious not to damage any internal components or cables. Once opened, locate the existing battery.

3. **Disconnect the Old Battery:**
   Carefully disconnect the battery connector from the laptop's motherboard. This connector typically has a gold-plated finish for stable output. Remove any screws securing the old battery in place.

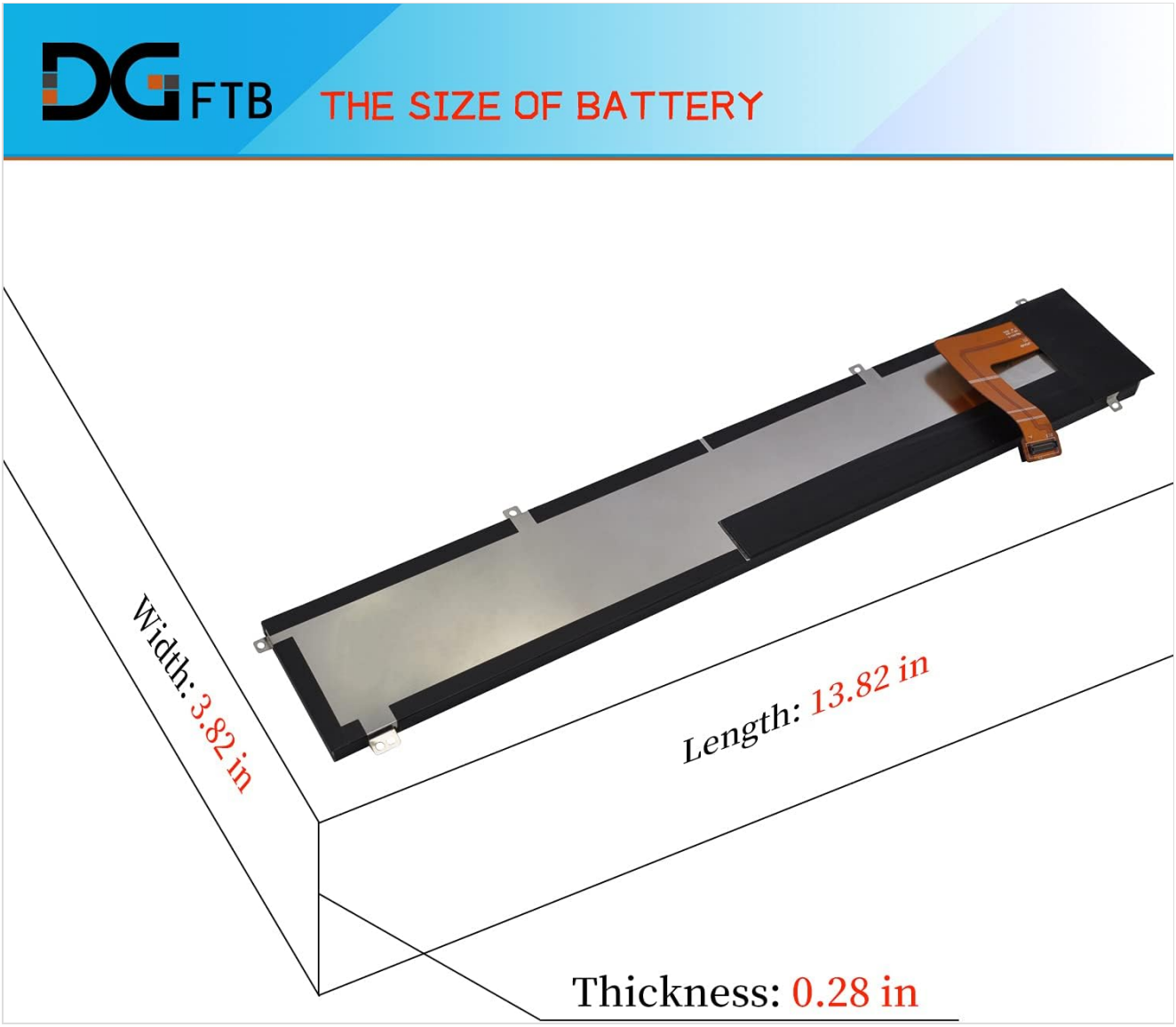


Figure 4.2: Battery Connector Detail

4. **Install the New Battery:**
   Place the new DGFTB RC30-0248 battery into the battery compartment, aligning it with the precise screw holes. The battery features composite material and high temperature/corrosion resistance for durability. Secure it with the screws you removed earlier. Connect the new battery's connector to the motherboard, ensuring a firm connection.

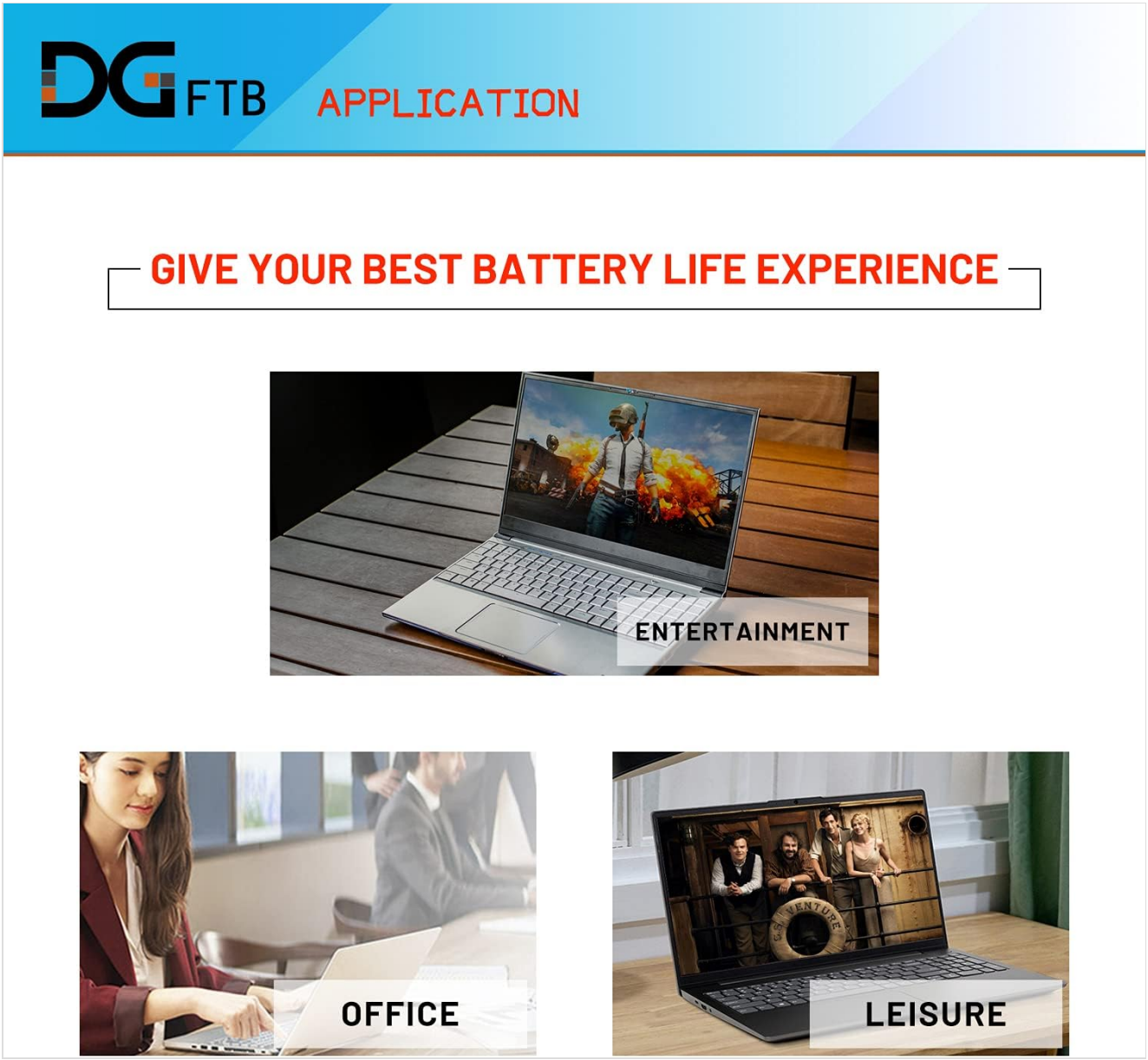


Figure 4.3: Battery Installation

5. **Reassemble Laptop:**
   Replace the back panel of your laptop and secure it with all the screws. Power on your laptop to verify the new battery is recognized and charging.

5. Operating Instructions

To maximize the performance and lifespan of your new battery, follow these general operating guidelines:

- **Initial Use:** For the first use, it is recommended to fully charge the battery to 100% and then discharge it to about 5-10% before recharging. Repeat this cycle 2-3 times to calibrate the battery.
- **Regular Charging:** Avoid frequently discharging the battery completely. It is best to keep the charge level between 20% and 80% for optimal battery health.
- **Temperature:** Operate your laptop in a moderate temperature environment. Extreme heat or cold can negatively impact battery performance and lifespan.
- **Power Management:** Utilize your laptop's power management settings to optimize battery usage.



Figure 5.1: Battery Application Scenarios

6. Maintenance

Proper maintenance can significantly extend the life of your laptop battery:

- **Storage:** If storing the battery for an extended period, ensure it is charged to about 50-60% and stored in a cool, dry place.
- **Cleaning:** Keep the battery contacts clean and free of dust. Use a dry, soft cloth for cleaning.
- **Avoid Overcharging/Over-discharging:** The battery is designed with built-in circuit protection to mitigate risks, but it's still best practice to avoid leaving it plugged in indefinitely after reaching 100% or letting it drain to 0% frequently.

7. Troubleshooting

If you encounter issues with your DGFTB RC30-0248 battery, consider the following:

- **Battery Not Recognized:**
  - Ensure the battery connector is securely seated.

    - Restart your laptop.
    - Check your laptop's BIOS/UEFI settings to see if the battery is detected.
    - Update or reinstall battery drivers in Device Manager.
- **Battery Not Charging:**
    - Verify the AC adapter and charging cable are working correctly.
    - Check the charging port for debris or damage.
    - Ensure the battery is properly installed.
- **Short Battery Life:**
    - Adjust power settings to a more conservative mode.
    - Close unnecessary background applications.
    - Reduce screen brightness.
    - Ensure proper ventilation to prevent overheating, which can reduce battery efficiency.

The DGFTB battery incorporates several quality assurance features to enhance safety and stability:

- Over Heat Protection
- Over Charge Protection
- Premium Microchip
- Class A Protection



Figure 7.1: Quality Assurance Features

8. How to Find Your Laptop Model

If you are unsure of your exact laptop model, follow these steps to find it using Windows System Information:

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** (or press Enter). This will open the System Information window.
3. **Step 3:** In the System Information window, look for the "System Model" entry in the right-hand pane. This will display your laptop's model number.

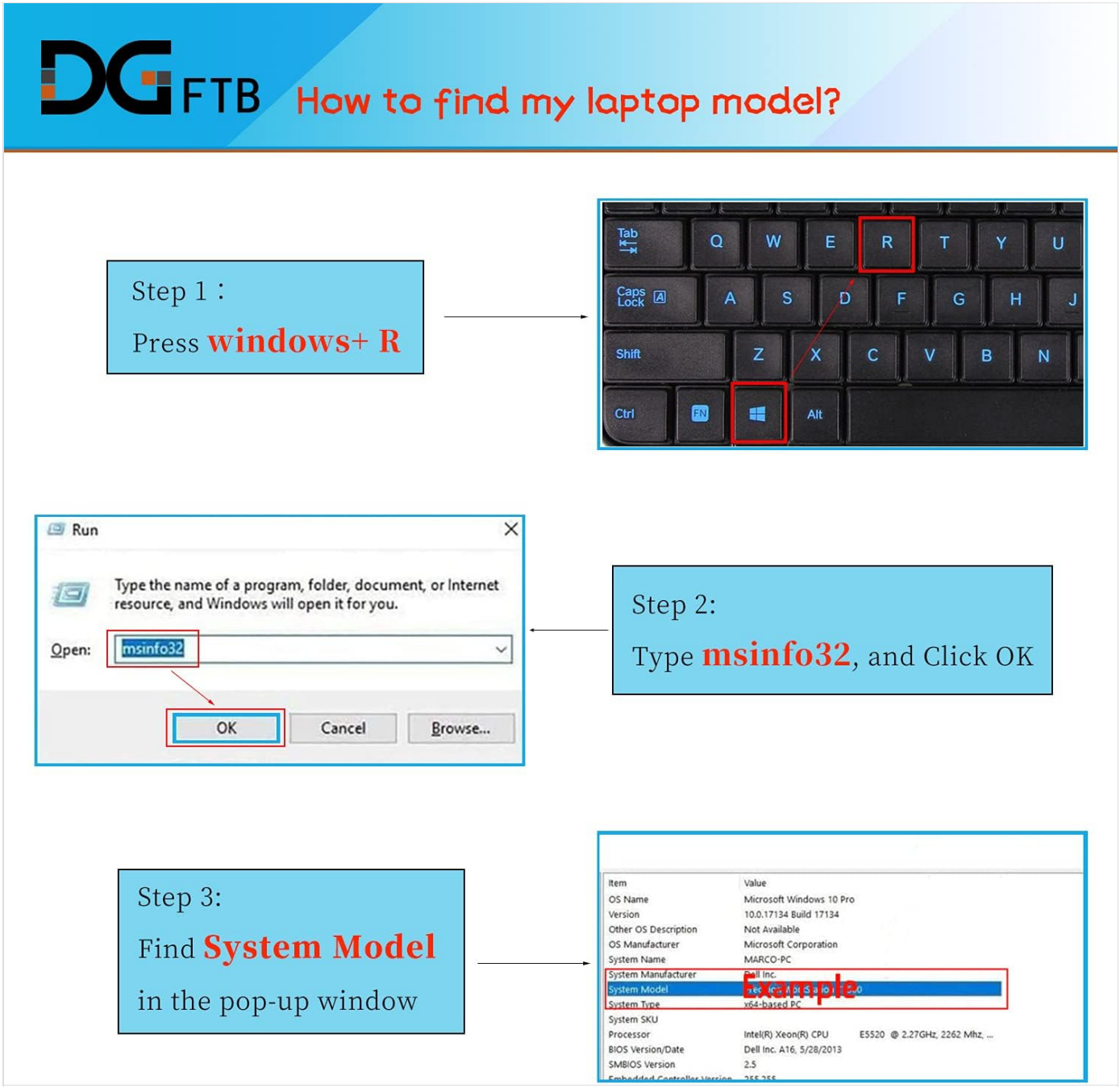


Figure 8.1: Finding Your Laptop Model

9. Warranty and Support

Your DGFTB RC30-0248 laptop battery comes with a**12-month warranty** from the date of purchase, ensuring peace of mind regarding its quality and performance. This warranty covers manufacturing defects and issues arising from normal use.

For any questions, technical assistance, or warranty claims, please contact DGFTB customer service. We offer 24/7 customer support to assist you.

Please refer to your purchase documentation for specific contact details or visit the official DGFTB store on Amazon: DGFTB Store

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