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› PowerSmart 20V Robot Lawn Mower PDL08 Instruction Manual

## PowerSmart PDL08

# PowerSmart 20V Robot Lawn Mower PDL08

## INSTRUCTION MANUAL

### 1. INTRODUCTION

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This manual provides detailed instructions for the setup, operation, and maintenance of your PowerSmart 20V Robot Lawn Mower, model PDL08. Designed for effortless lawn maintenance, this robotic mower covers areas up to 1/4 acre or 10,890 square feet. It features smart app control, intelligent charging, and a rain sensor for continuous, hassle-free operation. Please read this manual thoroughly before using the product to ensure safe and efficient operation.

### 2. SAFETY INFORMATION

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Always prioritize safety when operating the robot lawn mower. Keep hands and feet away from the cutting blades. Ensure the boundary wire is correctly installed to prevent the mower from entering unsafe areas. Do not operate the mower in conditions other than those specified in this manual. Children and pets should be kept away from the working area during operation. In case of emergency, press the STOP button immediately.

### 3. PACKAGE CONTENTS

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Verify that all items are present in the package:

- Robotic Lawn Mower
- Charging Station
- Charging Unit (Power Adapter)
- 200m Boundary Wire
- Hooks (approx. 350 pieces)
- Screws (4 pieces)
- Fixing Nails (6 pieces)
- Charging Station Bumper

## 4. SETUP AND INSTALLATION

Proper installation is crucial for the optimal performance of your robot lawn mower. Follow these steps carefully.

### 4.1 Charging Station Placement

Select a flat and level position for the charging station. Ensure it is at least 2 meters from any walls and 1 meter from any paths or driveways. Avoid placing it near steps or windows where the mower could be damaged or cause damage.



Image: Aerial view of a lawn illustrating the coverage area of 1/4 acre and how secondary mowing areas can be set up.

### 4.2 Assembling the Charging Station

Attach the charging unit to the baseplate using the provided 4 screws. Route the power cable and boundary wire along the designated grooves on the underside of the baseplate to keep them tidy and protected.

### 4.3 Fixing the Charging Station

Secure the charging station to the ground using the 6 fixing nails. Ensure there is approximately 1 foot of space between

the charging station and any adjacent sidewalks or walls to allow for proper docking.

#### 4.4 Boundary Wire Installation

Lay the boundary wire around the perimeter of your lawn. Avoid sharp angles; instead, use gentle curves. If parallel boundary wires are needed, ensure they are at least 10 cm apart. For obstacles like trees or flowerbeds, create a border around them, maintaining a distance of at least 1 meter from the obstacle to the wire. Bury the boundary wire in the ground to protect it and ensure a neat appearance.

#### 4.5 Connecting the Boundary Wire

Connect the ends of the boundary wire to the designated positive (+) and negative (-) sockets on the charging station. Once connected, the LED indicator on the charging station should light up green, confirming a successful connection.

#### 4.6 Initial Charging

Gently push the robot lawn mower into the charging station. The mower will begin charging automatically. Ensure the battery is fully charged before the first operation.

Your browser does not support the video tag.

Video: A comprehensive guide demonstrating the assembly and installation of the PowerSmart Robotic Lawn Mower, including charging station setup, boundary wire placement, and initial power-on procedures.

## 5. OPERATING INSTRUCTIONS

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Learn how to operate your PowerSmart Robot Lawn Mower using its control panel and the Smart Life app.

### 5.1 Initial Power On and Settings

1. After charging, press and hold the START button on the mower's control panel.
2. Select your desired language using the arrow keys and confirm with OK.
3. Set the current date and time.
4. Set a four-digit PIN for security.
5. Close the mower's cover to initiate operation.

### 5.2 Stopping Operation

To stop the mower at any time, press the large red STOP button located on the top of the unit. To resume operation, you will need to input your PIN.

### 5.3 App Connection (Smart Life App)

The PowerSmart Robot Lawn Mower can be controlled via the Smart Life app. Follow these steps to connect:

1. Download the "Smart Life" app from your device's app store or by scanning the QR code below [Download Smart Life App](#)
2. On the mower's control panel, navigate to "Setting" and then select "Set WiFi".
3. Open the Smart Life app on your smartphone and select "Add Device". The app should discover the mower.
4. Follow the in-app instructions to connect the mower to your home Wi-Fi network.

# Bluetooth & Wifi Setting



Image: The robotic lawn mower on a lawn, with a smartphone showing the Smart Life app interface for Bluetooth and WiFi settings, indicating how to connect the device.

## 5.4 Auto Mowing

In the standby or charging state, open the Smart Life app and click the "Auto" key. You can then set the desired working time for automatic mowing. The mower will automatically leave the charging station and begin mowing.

## 5.5 Fixed Mowing (Spot Mode)

For specific areas that require focused mowing, use the "Spot Mode". In the standby state, click the "Spot Mode" key in the app. The mower will mow in a concentrated pattern. To cancel the current task, press the "Cancel" key.

## 5.6 Pause State

During mowing, you can pause the current task by clicking the "Pause" key in the app. To resume, click the "Continue" key.

## 5.7 Setting Operating Times (Schedule)

From the standby or charging state, use the "Schedule" key in the app to set weekly mowing tasks. You can define up to two time periods for daily tasks, specifying start and end times for each day of the week.

## 5.8 Secondary Areas

The mower supports distributing mowing tasks across up to 5 secondary areas. In the app, select "Secondary Areas" to configure each zone. For each area, you can choose the distance from the charging station and set the percentage of time the mower spends in that specific area. Ensure the total percentage for all areas adds up to 100%.

## 5.9 Return to Charge

To send the mower back to its charging station from the standby state, click the "Station" key in the app. The mower will automatically navigate back to the charging dock.

# 6. FEATURES

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The PowerSmart 20V Robot Lawn Mower offers several advanced features for convenient and efficient lawn care:

- **Automatic Operation:** Covers up to 1/4 acre (10,890 sq.ft) with ease, providing a consistently manicured lawn.
- **Smart APP Control:** Manage scheduling, adjust settings, and initiate or stop mowing tasks directly from your smartphone.
- **Intelligent Charging:** The mower automatically returns to its charging dock when battery levels are low and resumes mowing once fully charged.
- **Rain Sensor:** Detects rain and pauses mowing until the weather clears, protecting the mower and preventing damage to your lawn.
- **Quiet and Eco-Friendly:** Operates quietly with zero emissions, offering a peaceful and environmentally conscious lawn care solution.
- **Adjustable Cutting Height:** Features a cutting height range of 1 to 2.4 inches, allowing customization for different grass lengths.
- **8.7 Inch Cutting Circle:** Equipped with large cutting plates for efficient and precise grass trimming.

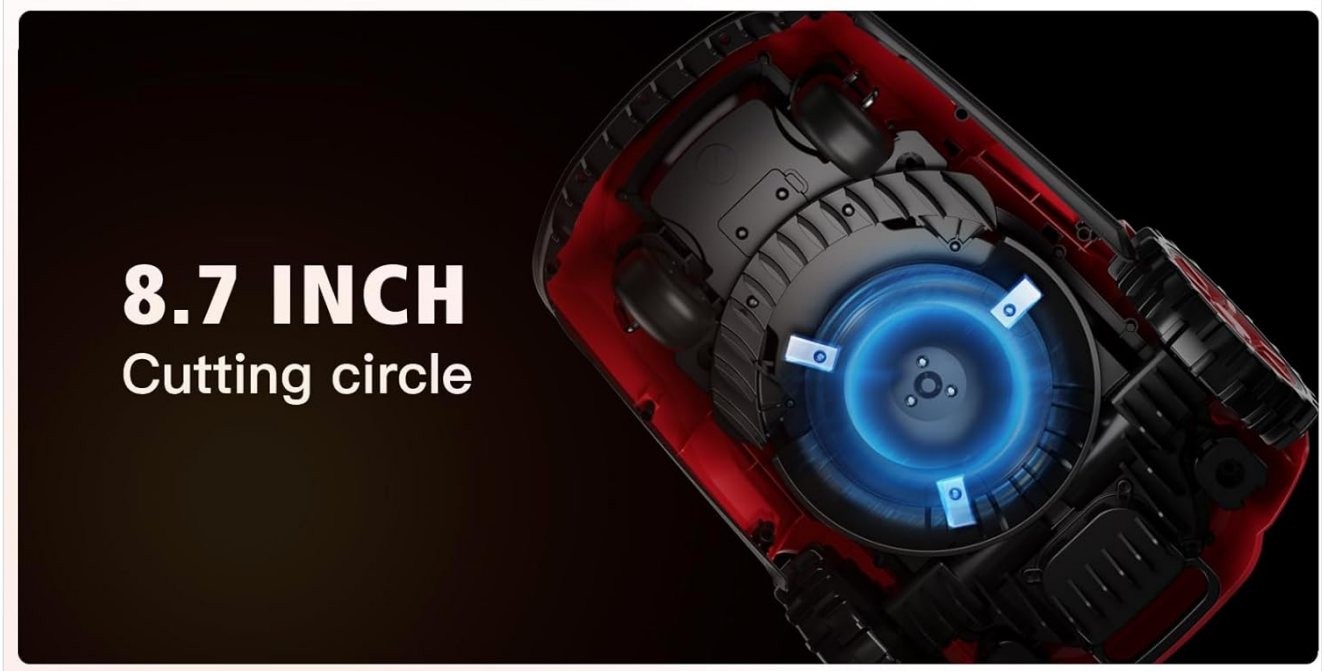


Image: Detailed view of the mower's cutting mechanism, showing the adjustable cutting height and the 8.7-inch cutting circle.

- **Automatic Obstacle Avoidance:** Navigates around obstacles in your yard, ensuring smooth operation and preventing collisions.

# Automatic Obstacle Avoidance



Image: The robotic lawn mower intelligently navigating around an obstacle on the lawn.

- **Slope Climbing Performance:** Capable of climbing slopes up to 25 degrees (47%), suitable for varied terrain.

# Slope Climbing Performance

climbs up to 25° slope



Image: The mower demonstrating its ability to climb slopes, indicating a maximum of 25 degrees or 47% slope.

- **IPX4 Water Resistance:** Designed to perform in various weather conditions, including rain, with an IPX4 rating.

# IPX4 Install Rain Mode



Image: The robotic lawn mower operating in light rain, highlighting its IPX4 water resistance.

## 7. MAINTENANCE

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Regular maintenance ensures the longevity and optimal performance of your robot lawn mower.

- **Cleaning:** Regularly clean the mower's chassis, wheels, and cutting deck to remove grass clippings and debris. Use a soft brush or cloth. Do not use high-pressure water jets.
- **Blade Inspection:** Check the cutting blades regularly for wear and damage. Replace dull or damaged blades to maintain cutting efficiency. Always wear protective gloves when handling blades.
- **Battery Care:** Store the mower in a dry, protected area during off-season. Ensure the battery is fully charged before storage and periodically recharge it during long periods of inactivity to prolong battery life.
- **Boundary Wire:** Periodically inspect the boundary wire for any damage or breaks. Repair as necessary to ensure continuous operation.

## 8. TROUBLESHOOTING

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If you encounter issues with your PowerSmart Robot Lawn Mower, refer to the following common troubleshooting tips:

- **Mower Not Starting:** Ensure the battery is charged, the cover is closed, and the PIN has been entered correctly. Check if the boundary wire is properly connected and the LED on the charging station is green.
- **Mower Not Charging:** Verify that the charging station is powered on and the mower is correctly docked. Check for any obstructions preventing proper contact.
- **Mower Leaving Boundary:** Inspect the boundary wire for breaks or incorrect installation. Ensure the wire is laid according to the guidelines in Section 4.4.
- **Uneven Cutting:** Check the cutting blades for sharpness and damage. Replace if necessary. Ensure the cutting height is set appropriately for your lawn.
- **App Connectivity Issues:** Ensure your smartphone is connected to the same Wi-Fi network as the mower. Restart both the mower and your smartphone, then attempt to reconnect via the Smart Life app.

For persistent issues, please contact PowerSmart customer support.

## 9. SPECIFICATIONS

<b>Brand</b>	PowerSmart
<b>Model Number</b>	PDL08
<b>Power Source</b>	Battery Powered
<b>Color</b>	Red
<b>Style</b>	Rotary
<b>Item Weight</b>	20.86 Pounds
<b>Cutting Width</b>	8.7 Inches
<b>Operation Mode</b>	Automatic
<b>Product Dimensions (D x W x H)</b>	24"D x 9.45"W x 16.14"H
<b>Assembly Required</b>	Yes
<b>UPC</b>	840432702864

## 10. WARRANTY AND SUPPORT

Your PowerSmart 20V Robot Lawn Mower is covered by a manufacturer's warranty. Please refer to the warranty card included in your package for specific terms and conditions. For technical support, replacement parts, or any inquiries, please visit the official PowerSmart website or contact their customer service department.