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› [PowerSmart 7-Ton Electric Log Splitter \(Model DB6407\) User Manual](#)

PowerSmart DB6407

PowerSmart 7-Ton Electric Log Splitter User Manual

Model: DB6407 | Brand: PowerSmart

1. IMPORTANT SAFETY INSTRUCTIONS

Always read and understand all instructions before operating the log splitter. Failure to follow these instructions may result in serious injury or property damage.

- **Personal Protective Equipment:** Always wear safety glasses, heavy-duty gloves, and steel-toed boots when operating the log splitter.
- **Work Area:** Operate the log splitter on a firm, level surface. Keep the work area clear of bystanders, children, and pets.
- **Electrical Safety:** Ensure the power cord is in good condition and connected to a properly grounded outlet. Do not operate in wet conditions.
- **Two-Hand Operation:** The log splitter requires simultaneous two-hand operation for safety. This prevents hands from being near the splitting wedge during operation.
- **Log Placement:** Place logs firmly on the splitting table. Do not attempt to split logs that exceed the specified length and diameter.
- **Hydraulic System:** Regularly check hydraulic fluid levels and for any leaks. Do not tamper with the hydraulic system.

ELECTRIC LOG SPLITTERS

7 TON(+/-10%)
SPLITTING FORCE

15 AMP
MOTOR



Image 1: PowerSmart 7-Ton Electric Log Splitter in use, demonstrating its splitting force and 15 Amp motor. A log is being split by the wedge.

2. PRODUCT OVERVIEW

2.1 Key Features

- **Powerful Motor:** 15 Amp induction motor with 3500 RPM for stable performance.
- **7-Ton Hydraulic System:** Capable of splitting larger logs efficiently.
- **Log Capacity:** Handles logs up to 20 inches in length and 10 inches in diameter.
- **Quick Cycle Time:** Resets in approximately 20 seconds.
- **Portable Design:** Equipped with sturdy wheels and a strong handle for easy transport.
- **Safety:** Two-hand operation for enhanced user safety.

2.2 Components

- **Splitting Wedge:** The steel component that splits the log.
- **Hydraulic Ram:** Pushes the log against the wedge.
- **Motor:** Electric motor providing power to the hydraulic pump.
- **Control Levers/Buttons:** For activating the splitting action.
- **Wheels:** For portability.
- **Support Legs:** Provide stability during operation.



Image 2: Diagram showing the various components of the PowerSmart Electric Log Splitter, including the switch button, hydraulic control lever, wheel, ON/OFF push switch, motor, power cord, front leg, rear of wedge, worktable, and worktable guard.

3. SETUP

1. **Unpacking:** Carefully remove all components from the packaging. Inspect for any shipping damage.
2. **Assembly:** Attach the support legs and wheels as per the assembly guide provided in the box. Ensure all bolts are securely tightened.
3. **Placement:** Position the log splitter on a stable, level, and dry surface. Ensure adequate clearance around the machine for safe operation and log handling.
4. **Electrical Connection:** Connect the power cord to a grounded 120V, 15 Amp electrical outlet. Use an appropriate extension cord if necessary, ensuring it is rated for outdoor use and the current draw of the splitter.
5. **Hydraulic Fluid Check:** Verify the hydraulic fluid level. Refer to the specific instructions in your packaged manual for checking and adding fluid.
6. **Vent Screw: IMPORTANT:** Before operating, loosen the vent screw on the hydraulic reservoir to allow air to escape. Failure to do so can damage the hydraulic system. Tighten the vent screw before moving or storing the unit.



Image 3: Close-up view of the control panel, showing the red ON/OFF push button and the hydraulic control lever, which must be pressed simultaneously to operate the splitter.

4. OPERATING INSTRUCTIONS

Follow these steps for safe and effective log splitting:

1. **Prepare Logs:** Ensure logs are cut to appropriate lengths (max 20 inches) and diameters (max 10 inches). Remove any branches or knots that could interfere with splitting.
2. **Load Log:** Place the log horizontally on the splitting table, ensuring it is stable and centered against the splitting wedge.
3. **Activate Splitting:** With both hands, simultaneously press the ON/OFF push button and pull the hydraulic control lever. The hydraulic ram will extend, pushing the log into the wedge.
4. **Split Log:** Continue holding both controls until the log is fully split or the ram reaches its maximum extension.
5. **Retract Ram:** Release both controls. The hydraulic ram will automatically retract to its starting position.
6. **Remove Split Wood:** Carefully remove the split wood from the splitting table.
7. **Repeat:** Continue the process for additional logs.

Your browser does not support the video tag.

Video 1: Official PowerSmart video demonstrating the electric log splitter in action, showing how logs are loaded and split. This video highlights the ease of use and efficiency of the machine.

Your browser does not support the video tag.

Video 2: Official PowerSmart video showcasing the electric wood splitter's performance, including close-ups of the splitting process and the resulting firewood. This video emphasizes the power and effectiveness of the splitter.

5. MAINTENANCE

Regular maintenance ensures the longevity and safe operation of your log splitter.

- **Cleaning:** After each use, clean the log splitter, especially the splitting table and ram, to remove wood chips and debris.
- **Lubrication:** Periodically lubricate moving parts as specified in the detailed manual.
- **Hydraulic Fluid:** Check the hydraulic fluid level before each use. Replace fluid annually or as recommended by the manufacturer. Use only approved hydraulic fluid.
- **Inspections:** Regularly inspect all bolts, nuts, and fasteners for tightness. Check the power cord for damage.
- **Storage:** Store the log splitter in a dry, protected area when not in use. Ensure the vent screw is tightened before storage.

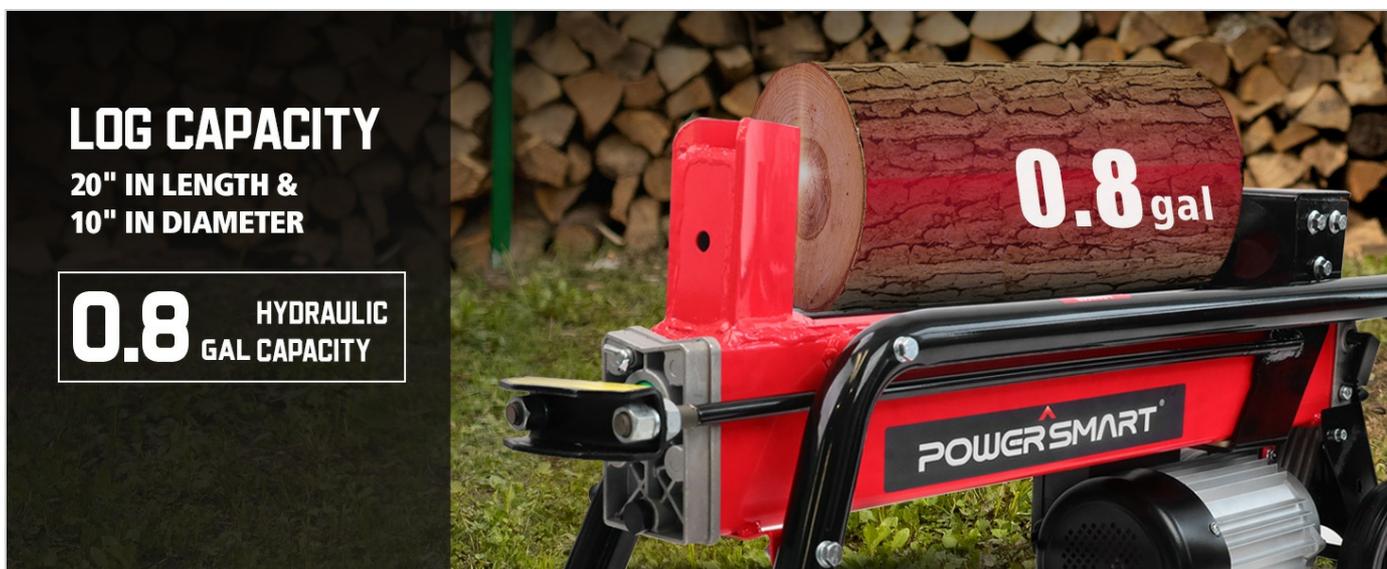


Image 4: Illustration indicating the hydraulic capacity of the log splitter, which is 0.8 gallons. Proper fluid levels are crucial for performance.

6. TROUBLESHOOTING

Problem	Possible Cause	Solution
Log splitter does not start	No power, faulty switch, motor issue	Check power connection, ensure both controls are pressed simultaneously, inspect power cord.
Ram does not extend or retract	Low hydraulic fluid, vent screw closed, air in system	Check hydraulic fluid level, ensure vent screw is open during operation, bleed air from the system.
Insufficient splitting force	Log too large/hard, low hydraulic pressure	Do not attempt to split logs exceeding capacity. Check hydraulic fluid and system for leaks.
Unusual noise during operation	Loose components, motor issue, hydraulic issue	Inspect for loose parts. If noise persists, discontinue use and contact customer support.

For more detailed troubleshooting, refer to the complete manual or contact PowerSmart customer support.

7. SPECIFICATIONS

- **Model Number:** DB6407
- **Splitting Force:** 7 Tons
- **Motor:** 15 Amp Induction Motor, 3500 RPM
- **Max Log Length:** 20 inches
- **Max Log Diameter:** 10 inches
- **Hydraulic Fluid Capacity:** 0.8 gallons
- **Product Dimensions:** 37.4 x 10.6 x 18.49 inches
- **Item Weight:** 101 pounds
- **Manufacturer:** Amerisun Inc.

PRODUCT SIZE



Image 5: The PowerSmart Log Splitter with key dimensions labeled, showing its compact size for storage and transport.

8. WARRANTY AND SUPPORT

PowerSmart stands behind its products with a comprehensive warranty and dedicated customer service.

- **Warranty:** This product comes with a two-year warranty. Please retain your proof of purchase for warranty claims.
- **Customer Service:** For any questions, technical assistance, or warranty inquiries, please contact PowerSmart customer service. Our team aims to respond within 24 hours.
- **Replacement Parts:** PowerSmart provides full replacement parts through its Illinois headquarters.
- **Certified Repair Centers:** Over 500 certified repair centers are available in the U.S. for service needs.



Image 6: Graphic highlighting the 2-year warranty provided with the PowerSmart Electric Log Splitter, ensuring product reliability and customer peace of mind.

