

BLACK+DECKER BDCAC202B

BLACK+DECKER 20V MAX Lithium Battery Charger

MODEL: BDCAC202B

Introduction

The BLACK+DECKER BDCAC202B 20V MAX Lithium Battery Charger is designed to efficiently power your BLACK+DECKER 12V MAX* and 20V MAX* Powerconnect Lithium-Ion slide batteries. This 2 Amp charger is capable of charging 1.5Ah Lithium slide pack batteries in approximately 45 minutes or less. It features a maintenance mode that optimizes charging for extended battery life, and includes a six-foot cord for flexible placement during charging.

**Maximum initial battery voltage (measured without a workload) is 20 volts. Nominal voltage is 18.*

Key Features:

- **Fast Charging:** Efficiently powers your BLACK+DECKER 12V MAX* and 20V MAX* Powerconnect battery packs.
- **2.0 Amp Output:** Ensures quick and efficient recharging of battery packs.
- **Maintenance Mode:** Automatically optimizes charging for longer battery life.
- **6-Foot Cord:** Provides convenient reach and versatile charging options.



Figure 1: The BLACK+DECKER 20V MAX Lithium Battery Charger (BDCAC202B).

Setup

Before using your charger, ensure it is placed on a stable, flat surface in a well-ventilated area, away from heat sources. The charger is designed for indoor use only.

Initial Setup Steps:

1. Plug the charger into an appropriate outlet. Ensure the outlet is a standard 120V AC, 60Hz power source.
2. Insert the battery pack into the charger. Align the battery with the charger's slot and slide it firmly into place until it clicks securely.



Figure 2: Properly inserting a battery pack into the charger.

Operating Instructions

Charging Procedure:

1. Plug the charger into an appropriate outlet before inserting the battery pack.
2. Insert the battery pack into the charger.
3. The green LED will flash, indicating that the battery is being charged.
4. The completion of charge is indicated by the green LED remaining on continuously.

Recharge discharged batteries as soon as possible after use or battery life may be greatly diminished.

For longest battery life, do not discharge batteries fully. It is recommended that the batteries be recharged after each use.

Charger Diagnostics (LED Indicators):

The charger is designed to detect certain problems that can arise with the battery packs or the power source. Problems are indicated by one LED flashing in different patterns:

- **Flashing Green LED:** Battery is charging.
- **Solid Green LED:** Battery is fully charged.
- **Flashing Red LED (Bad Battery):** The charger can detect a weak or damaged battery. If you see this red battery blink pattern, do not continue to charge the battery. Return it to a service center or a collection site for recycling.
- **Red/Green Flashing (Hot/Cold Pack Delay):** When the charger detects a battery that is excessively hot or excessively cold, it automatically starts a Hot/Cold Pack Delay, suspending charging until the battery has normalized. After this happens, the charger automatically switches to the Pack Charging mode. This feature ensures maximum battery life.



**Charges 12-20V MAX*
Lithium-Ion batteries**



**Charges in
45 minutes
or less**

2.0 amp output

*Maximum initial battery voltage (measured without a workload) is 20 volts. Nominal voltage is 18.

Figure 3: Charger LED indicators for charging status and diagnostics.

Maintenance

Leaving the Battery in the Charger:

The charger and battery pack can be left connected with the green LED glowing indefinitely. The charger will keep the battery pack fresh and fully charged. This feature is part of the charger's maintenance mode, which optimizes battery life.

Important Charging Notes:

- Longest life and best performance can be obtained if the battery pack is charged when the air temperature is between 65°F and 80°F (18°-27°C). DO NOT charge the battery pack in an air temperature below +40°F (+4.5°C), or above +105°F (+40.5°C). This is important and will prevent serious damage to the battery pack.

- The charger and battery pack may become warm to touch while charging. This is a normal condition, and does not indicate a problem. To facilitate the cooling of the battery pack after use, avoid placing the charger or battery pack in a warm environment such as in a metal shed, or an uninsulated trailer.

Troubleshooting

If your battery charger is not operating properly, refer to the table below for common issues and their possible solutions.

Problem	Possible Cause	Possible Solution
Battery pack will not charge.	Battery pack not inserted into charger.	Fully insert battery pack into charger so that green LED starts to blink.
	Charger not plugged in.	Plug charger into a working outlet. Refer to 'Important Charging Notes' for more details.
	Surrounding air temperature too hot or too cold.	Move charger and battery pack to a surrounding air temperature of approximately 65°F - 80°F (18°-27°C).

Specifications

Feature	Detail
Manufacturer	Black & Decker
Part Number	BDCAC202B
Item Weight	1.2 pounds
Product Dimensions	8.15 x 4 x 8.99 inches
Power Source	Corded Electric
Output Voltage	20 Volts
Battery Cell Type	Lithium Ion
Included Components	BDCAC202B - 20V Lithium Ion 2 Amp Battery Charger

Warranty and Support

Two-Year Limited Warranty:

BLACK+DECKER warrants this product to be free from defects in material or workmanship for a period of two (2) years following the date of purchase, provided that the product is used in a home environment. This limited warranty does not cover failures due to abuse, accidental damage or when repairs have been made or attempted by anyone other than BLACK+DECKER and its Authorized Service Centers. A defective product meeting the warranty criteria will be replaced or repaired at no charge.

Service Information:

All BLACK+DECKER Service Centers are staffed with trained personnel to provide customers with efficient and reliable power tool service. Whether you need technical advice, repair, or genuine factory replacement parts, contact the BLACK+DECKER location nearest you. To find your local service location, call 1-800-544-6986 or visit www.blackanddecker.com.