



BC-325-24

Product Manual

BATTERY CHARGER

24V 25A



System	Continuous	Jump-start	Peak	Origin
12V / 24V	25A	350A	5600A	Sydney, AU

Designed and made in Sydney, Australia

Revision: 2026.07

Overview

The BC-325-24 is a battery charger providing 25A continuous output at both 12V and 24V. It combines selectable battery voltage with adjustable charge-current control and an engine-starting function rated at 350A jump-start amps and 5600A peak amps. Safe operation requires correct voltage selection, close monitoring at maximum output, and use with the battery connected.

Key Features

- 25A continuous charge output.
- Selectable 12V and 24V operation.
- Adjustable amp control for commencing and setting the charge current.
- 350A jump-start rating.
- 5600A peak rating.
- Engine-start procedure with a specified battery pre-charge period.

Intended Functions

- Charging a supported battery at the selected 12V or 24V setting.
- Pre-charging a vehicle battery before starting.
- Assisted engine starting when the procedure in this manual is followed.

Service and support

For product support, contact Durst Industries (Aust.) Pty Ltd using the details listed on the final page of this manual.

Technical Specifications

The original BC-325-24 ratings are summarised below.

Item	BC-325-24
Product type	Battery charger
Supported battery voltage	12V / 24V
Continuous output	25A
12V output	25A
24V output	25A
Jump-start amps	350A
Peak amps	5600A

Operating limit

Do not exceed 25A for the selected voltage. When the charger is used at maximum output, monitor the battery carefully so the maximum charge is not exceeded.

Electrolyte temperature

Monitor electrolyte temperature. It must not exceed 40-50 degrees C, depending on the battery manufacturer's specification.

Charging environment

Charge batteries only in a well-ventilated area and always wear safety goggles.

Connected battery

Operate the charger only with the battery connected.

Operating Instructions

1 Prepare safely

Work in a well-ventilated area, wear safety goggles and check the relevant battery or vehicle specifications.

2 Set power to OFF

Turn the switch to the OFF position before connecting or disconnecting the battery.

3 Connect the leads

Connect the red lead to the positive battery terminal and the black lead to the negative terminal. On alternator-equipped vehicles, follow the precaution on page 5.

4 Select battery voltage

Switch the charger to the correct battery voltage before commencing charging.

5 Start charging

Switch power on. Turn the amp control clockwise to commence charging. Do not exceed 25A for the selected voltage.

6 Monitor and finish

Watch the battery closely, especially at maximum output. Keep electrolyte temperature within the battery manufacturer's limit, then switch OFF before disconnecting.

Important

If the charger is operated at maximum output, maintain a careful watch to ensure the maximum charge is not exceeded. Always operate the charger with the battery connected.



Safety, Jump Starting and Support

Safety and Precautions

- **Alternator-equipped vehicles:** As a safety precaution, remove the main battery connections. If charging leads are reversed, the vehicle electrical system may fail.
- **Vehicles with on-board computers:** High-voltage spikes during jump starting can cause damage. Disconnect the battery and charge it for approximately 15-20 minutes at high current, then reconnect it and start the vehicle from its own power supply. If in doubt, check the motor vehicle specifications.
- **Temperature:** Watch electrolyte temperature. It must not exceed 40-50 degrees C, depending on the battery manufacturer's specification.
- **Work area and protection:** Always charge batteries in a well-ventilated area and always wear safety goggles when working with batteries.

Estimating Charge Time

Approximate charging time (hours) = battery capacity (Ah) / charge rate (A)

Example: a 60Ah battery charged at 20A requires approximately 3 hours (60Ah / 20A = 3 hours). Continue to monitor the battery during charging.

Engine Starting

- Recharge the battery at a maximum of 25A for 5-10 minutes.
- Before using the starter, reduce charging current to approximately 20A.
- Press the starter key. Only operate with the battery connected.

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