

CEMOTO B28 (EB28) — 27.5" Electric Mountain Bike

“ A 27.5-inch electric mountain bike with a 500W motor, 48V 13Ah battery and alloy suspension fork, built for stability and manoeuvrability on steep hills and rocky paths.

Product page: cemotoride.com/products/cemoto-eb28a-emountain-bike

B28 — Main view

Overview

The CEMOTO B28 — sold on the store under the handle `cemoto-eb28a-emountain-bike` and titled *CEMOTO EBIKE B28* — is the 27.5-inch mountain eBike in the CEMOTO range.

Its 27.5-inch wheels are a deliberate middle ground: larger than 26-inch wheels for better rollover and stability, smaller than 29-inch for quicker handling in tight terrain. CEMOTO describes the result as a blend of stability and manoeuvrability that makes it easy to tackle steep hills and rocky paths.

The 500W brushless motor is the lowest-rated motor in the CEMOTO eBike line, paired here with a 48V 13Ah pack — the smallest battery in the range. The design brief is a comfortable, capable all-rounder rather than a maximum-power machine: CEMOTO emphasizes rider comfort, an ergonomic frame, adjustable suspension, and confident grip on descents and sharp turns.

“ **Naming note:** this model is listed as **B28** in the product title and page heading, but the store URL and handle use **EB28A**. Both refer to the same bike. It is a *different* model from the [B28A](#) (high-step fat tire) and the [B28D](#) (26" folding fat tire) — check the tire size and frame style to be sure which you have.

Available colors

The B28 is listed as a single-variant product. Color options are not published on the store listing.

For current pricing and availability, see the CEMOTO store listing.

Key specifications

Specification	Value
Motor	500W brushless
Battery	48V 13Ah Li-ion
Charger	54.6V 2A, UL-listed
Charge time	6–7 hours
Fork	Alloy suspension (Lo)
Tires	27 × 2.35 all-terrain
Brakes	Disc brakes
Top speed	20 mph
Gears	SHIMANO 7-speed
Display	Color LCD, 4 inch
Frame	Aluminum 6061
Load capacity	120 kg

Sizes and weight

Measurement	Value
Net weight (N.W.)	33 kg
Gross weight (G.W.)	38 kg
Carton size	148 × 23 × 82 cm
Load capacity	120 kg
Wheel size	27.5 inch

Feature highlights

- **27.5-inch wheels** — the balance point between rollover stability and tight-terrain agility
- **500W brushless motor** — adequate for hills and loaded commuting, and gentler on battery consumption than the 750W models
- **48V 13Ah battery with 6-7 hour charge time** — the quickest charging pack in the CEMOTO eBike range
- **Alloy suspension fork** — takes the edge off rocky paths and roots
- **27 × 2.35 all-terrain tires** — wider than a commuter tire for grip off pavement, narrower than a fat tire for efficiency
- **6061 aluminum alloy frame** — lighter and more corrosion-resistant than the carbon steel frame used on the EB66
- **SHIMANO 7-speed gearing** — climb under your own power when you want to conserve battery
- **Color LCD display with 4-inch screen** — readable speed, battery and trip data

What it is for

CEMOTO positions the B28 for riders who want trail capability and daily-commute practicality in one bike:

- **Steep hills and rocky paths** — the design brief called out these conditions specifically
- **Muddy trails and smooth paths** — the all-terrain tires and suspension cover both
- **Long rides without range anxiety** — a robust battery is cited as a core design goal, though the 13Ah pack is the smallest in the range. Plan carefully for long off-pavement rides; see [Range Calculator](#)
- **Beginners and experienced riders** — CEMOTO markets it as an excellent choice for both

Comparison with the other fat-tire models

	B28	B28A	B28D
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Wheels	27 × 2.35	26 × 4.0 (fat)	26 × 4.0 (fat)
Motor	500W	750W	750W (1,500W max)
Battery	48V 13Ah	48V 15.6Ah	48V 15.6Ah
Frame	6061 alloy	6061 alloy, high step	6061 alloy, folding
Brakes	Disc	Hydraulic disc (XOD)	Hydraulic disc (XOD)

Choose the B28 for efficiency and lighter weight; choose a fat-tire model for sand, snow, loose gravel and a softer ride.

Range and performance notes

Published figures are manufacturer-stated maximums under controlled test conditions (typically a 70 kg rider, 25 °C and 20 km/h constant speed). The 500W motor and 13Ah pack combination means the B28 has the least energy capacity in the CEMOTO eBike range — $48V \times 13Ah \approx \mathbf{624}$

Wh. For a structured estimate under your own conditions, see [Range Calculator](#).

The manual's advice applies directly here: to save energy and extend battery life, use pedal assistance when climbing a slope or riding into wind. Low tire pressure increases resistance and reduces range — check air pressure frequently.

Safety and legal notes

- **Wear an approved helmet** and observe all road rules for the area where you ride.
- **Confirm your local eBike rules.** See [Riding Laws & Compliance](#).
- **eBikes are single-rider vehicles.** Never carry a passenger.
- **Intended terrain:** eBikes are for on-road or improved-trail use. Avoid riding rough trails — damage may occur. Learn the trail rules and stay within the bike's limits.
- **Do not ride through deep water**, and avoid prolonged riding in rain. When riding in bad weather, braking distance increases.
- **Chain tension should be about 15 mm.** See [Drive & Transmission](#).

Images

B28 — Main view

Main view

B28 — Detail 1

Detail 1

B28 — Detail 2

Detail 2

B28 — Detail 3

Detail 3

Related pages

- [eBikes & Scooters Overview](#)
- [B28A High Step Fat Tire](#)
- [B28D Folding Fat Tire](#)
- [eBike Manuals](#)
- [Tires, Wheels & Suspension](#)
- [Range Calculator](#)

“ **Note:** All performance figures are manufacturer-stated maximums and are not simultaneous guarantees. Specifications are subject to change without notice.

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