CEMOTO EB66 (B66) — 750W Double Battery Motorcycle-Style eBike

> A motorcycle-styled fat-tire eBike with a 750W motor and a choice of one or two 48V 15Ah batteries — iconic cruiser looks with modern electric technology.
>
> **Product page:** cemotoride.com/products/eb66-harley-like-hi-tech-ebike

EB66 — Main view

Overview

The CEMOTO EB66 — sold under the store handle `eb66-harley-like-hi-tech-eBike` and referred to internally as **B66** — is the styling-led model in the CEMOTO eBike range. It combines motorcycle-cruiser aesthetics with an electric drivetrain: fat tires, a substantial battery, and intelligent controls.

Its standout practical feature is the **dual-battery option**. The EB66 is sold in two variants — a single-battery version and a double-battery version — which is effectively a factory-fitted range extender. This is unusual in the eBike market, where a second battery is normally an aftermarket purchase, and it makes the EB66 the longest-range option in the range when specified with two packs.

CEMOTO describes it as delivering exceptional performance on city streets and beyond, with a fusion of classic aesthetics and modern engineering.

> **Naming note:** the product image filenames use **B66** (`B66_1000_720_01.jpg`), and the store title uses **EB66**. Both refer to the same bike. The variant names distinguish the battery configuration.

Available configurations

Variant	Battery
48V15AH × 1	One 48V 15Ah pack
48V15AH × 2	Two 48V 15Ah packs

> **Choosing between them:** one pack gives 48V × 15Ah ≈ **720 Wh**; two packs give ≈ **1,440 Wh** — double the energy, and it materially changes what the bike can do. Note that the second pack adds weight, and the EB66 is already the heaviest eBike in the range at 41 kg net. For current pricing of each configuration, see the EB66 product page.

Key specifications

Specification	Value
Motor	750W BLDC
Battery	48V 15Ah Li-ion × 1 or × 2
Charger	54.6V 2A, UL-listed
Display	Color display, 4 inch
Frame	Carbon steel
Fork	Alloy suspension (Lo)
Brakes	Disc, Tektro
Tires	20 × 4.0 KENDA (fat tire)
Gears	SHIMANO 7-speed
Max speed	20 mph
Load capacity	120 kg

Sizes and weight

Measurement	Value
Net weight (N.W.)	41 kg
Gross weight (G.W.)	48 kg
Carton size	138 × 28 × 80 cm
Load capacity	120 kg
Wheel size	20 inch

> **The heaviest eBike in the range.** At 41 kg net, the EB66 is 8 kg heavier than the B28A/B28D and 14 kg heavier than the EB40. The dual-battery variant is heavier still. Factor this into storage, lifting and transport decisions — and note that CEMOTO has not published separate weights for the two battery configurations.

Feature highlights

- **Motorcycle-inspired design** — cruiser styling, a defining attribute of this model
- **Dual-battery option** — up to ≈1,440 Wh of onboard energy for extended range
- **750W BLDC motor** — strong output to move a heavy, fat-tired machine
- **20 × 4.0 KENDA fat tires** — the smallest-diameter fat tires in the range, giving a low stance, a compact footprint and excellent traction
- **Tektro disc brakes** — a recognized brake brand, providing consistent stopping power
- **Carbon steel frame** — chosen for the cruiser aesthetic. Heavier than the 6061 alloy used elsewhere, and it needs more diligent corrosion care
- **Alloy suspension fork** — absorbs impacts alongside the fat tires
- **SHIMANO 7-speed gearing** — lets you pedal efficiently and conserve battery
- **Fat tires for superior traction** — CEMOTO cites traction as a core EB66 benefit
- **Intelligent controls and a 4-inch color display** — clear readout while riding

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Carbon steel frame — care note

The EB66 is the only CEMOTO eBike using a **carbon steel** frame. That choice supports the cruiser look, but steel is more vulnerable to corrosion than aluminum, particularly where paint is chipped or scratched.

Practical implications:

- **Dry and inspect the frame after wet rides**, and after any exposure to salt (winter roads, coastal air).
- **Touch up paint chips** promptly to prevent rust spreading.
- **Pay attention to the underside of the frame, welds and the area around fasteners**, where water collects.
- **Do not use a high-pressure washer.** Water forced into seams and bearings causes more harm than the dirt it removes.

See Cleaning & Storage.

Battery and charging

The EB66 uses a 48V 15Ah (≈720 Wh) pack charged by a 54.6V 2A UL-listed charger — the same charger used across the CEMOTO 48V range.

Charging time is not published for the EB66, but by comparison with the B28, which specifies a 6–7 hour charge time on a 48V 13Ah pack with the same 2A charger, expect a similar order of magnitude — likely **7–8 hours per pack** from empty. Charging two packs doubles the task unless you have two chargers.

Manual guidance on battery handling:

- **Recharge before your first ride** and after any long-distance operation.
- Use only the battery supplied with, or recommended for, the bike.
- Use only the supplied charger. If it fails, replace it with the recommended charger — not a generic substitute.
- **For safety, cut the power supply when the bike is not in use.**
- Battery lifespan averages **1 to 2 years** depending on usage and conditions. Plan for replacement.
- **Never leave a battery charging unattended for long periods**, and charge on a non-flammable surface away from anything combustible.

See Battery Care & Charging for charging practice, storage charge levels and temperature guidance.

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). CEMOTO does not publish a specific range figure

for the EB66, so range must be estimated from energy content and compared against models with published figures.

Configuration	Energy	Comparison
EB66 single battery	≈720 Wh	Similar to the B28 (624 Wh) and EB40 (720 Wh at 15Ah)
EB66 dual battery	≈1,440 Wh	Roughly double the B28A / B28D (≈749 Wh)

The EB66 is heavy (41 kg) with fat tires and a low, wide stance. All three factors consume energy, so expect efficiency below that of a lighter, narrower-tired bike carrying the same charge. Use pedal assistance on climbs and into wind to conserve energy.

For a structured estimate under your own conditions, see Range Calculator.

Safety and legal notes

- **Wear an approved helmet** and observe all road rules for the area where you ride.
- **Confirm your local eBike rules.** A 750W motor with high energy capacity may sit above local eBike definitions — in some jurisdictions, higher-power, throttle-operated bikes are classified differently from pedal-assist eBikes, with consequences for licensing, insurance and where you may ride. See Riding Laws & Compliance.
- **eBikes are single-rider vehicles.** Never carry a passenger, regardless of the cruiser styling and apparent seating room.
- **Intended terrain:** on-road and improved trail. Do not ride rough trails — damage may occur.
- **Do not ride through deep water**, and avoid prolonged riding in rain. The steel frame and the electrical system both warrant particular care here.
- **Chain tension should be about 15 mm.**
- **Braking distance increases in bad weather**, and this is a heavy bike — allow generous stopping distance.
- **Mind the weight.** 41 kg is difficult to lift safely. Use proper technique and consider a second person for loading into vehicles.

Images

EB66 — official product photography.

EB66 — Main view

Main view

EB66 — Detail 1

Detail 1

EB66 — Detail 2

Detail 2

EB66 — Alternative view

Alternative view

Related pages

- eBikes & Scooters Overview
- eBike Manuals
- Battery Care & Charging
- Cleaning & Storage
- Range Calculator
- Riding Laws & Compliance

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

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