

Karaa Conversion Kit

Make your favourite bike electric. A 250 W hub kit, a removable 522 Wh battery and app-controlled pedal assist, fitted to a bicycle you already own.

250
W

rated motor

522
WH

removable battery

32
KM/H

assisted speed

50-100
KM

real-world range



The whole kit as it ships: hub-motor wheel, removable battery and charger. Display, pedal-assist sensor, controller and wiring harness are in the box.

What it fits

Wheel size	Bicycles on about 26-inch wheels. Other sizes are built to the bicycle's own rim, on request.
Motor position	Rear wheel as standard. Front-wheel builds where the rear hub cannot be replaced, for example a cassette drivetrain.
Frame	Steel or alloy, with a bottle-cage or downtube mount for the battery
Proven on	Heavy-duty steel utility bicycles, geared hardtails and fat-tyre models. Platform-specific sheets are available on request.

What fitting involves

The motor is in the rear hub, so the rear wheel is replaced and anything carried in that hub goes with it.

Wheel	Rebuilt around the hub motor on stainless steel 13G spokes, to the bicycle's own rim
Rear gears	Rear sprockets do not transfer. A screw-on 6 or 7-speed freewheel goes on the motor, so multi-speed rear gearing is retained. Front chainrings are unaffected.
Rear hub brake	A hub brake, coaster or servo, does not transfer. Karaa fits a rear calliper brake in its place.
Rim and disc brakes	Both are kept. The motor carries a disc mount, and rim brakes mount to the frame and fork.
Fitting	Fitted by a trained mechanic. It is not a user-installed kit.

Specifications

As supplied. Every figure below is from the Karaa canonical product specification of July 2026.

Motor	250 W brushless DC geared hub, 36 V. Freewheels when off. Takes a screw-on freewheel and carries a disc mount, so rear gears and a rear disc brake are retained.
Power delivery	20 A continuous, 720 W at 36 V. 40 A over-current cut-off.
Battery	36 V 14.5 Ah (522 Wh) lithium-ion NMC, removable and lockable, IP54. 50 to 100 km per charge.
Controls	Pedal assist through the Karaa app over Bluetooth: climbing, eco, manual, cargo. Handlebar display shows speed, charge and assist.
Wiring and build	Waterproof 9-pin connector, battery to motor. Wheel laced on stainless steel 13G spokes.
Charger	42 V DC, 2 A. Input 110-240 V AC, 50/60 Hz. About six to seven hours.
Warranty	Motor 10,000 km or one year. Battery 500 cycles or one year. Charger: replaced only if a fault is reported within seven days of delivery.

Specification source: Karaa canonical product specification and warranty policy, July 2026, with the electrical and fitment detail from the Karaa conversion kit technical specification. Range: up to 120 km is a manufacturer maximum under ideal conditions. Real-world range is 50 to 100 km depending on load, terrain, assist level, temperature and battery age. Specifications may be updated in future revisions. Project-specific deviations are recorded in the signed quotation. Pricing on request.