

A Bike Lane Vehicle

2025 Product Guide



# Non-cars for the future



Infinite Machine creates extraordinary non-cars for a post-car future. Born in NYC, designed for the world—we believe the next era of mobility is smarter, cleaner, and more joyful. Our mission is to enable movement that fits the city—not fights it.



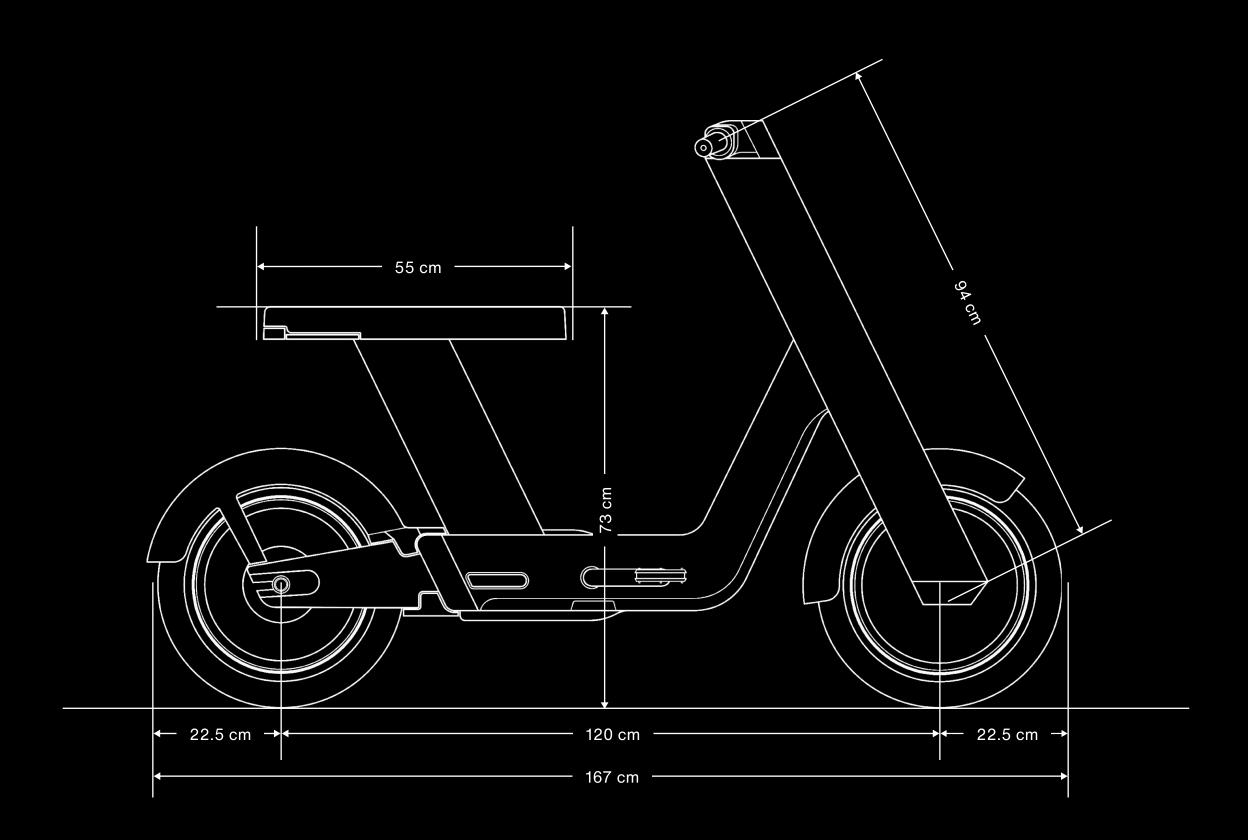
# Bike lane friendly Automotive grade



This is Olto.

Olto is a new kind of vehicle—built from scratch for the-bike lane. With 750 watts of power, 40-mile range, and a fast-swapping battery, it's powerful, flexible, and smart. Designed for real riders and real cities, it carries two, locks itself, charges fast, and shrugs off weather. Every detail—from invisible cabling to magnetic pedals—was built to reduce friction and increase joy.

# OLTO Overview



Feature Specification

Vehicle Class State adjustable class e-bike (Pedal-Assist & Throttle)

Top Speed 20 mph (bike lanes), 33 mph (off-road)

Drive Modes Drive, Reverse, Park

Passengers 2

Real-World Range Up to 40 miles per charge

Battery System 48V, 25Ah, 1.2kWh, removable & hot-swappable

Charging 100% in 5.5 hrs w included charger, 3 hrs w fast charger

Curb Weight 176 lbs including battery

Legal Simplicity No license, registration, or insurance required Weather-Proof Build Fully sealed and anodized for outdoor use

Colors Silver and Black

Retail Price \$3,495 (Launch MSRP)

Shipping Timeline Fall 2025

# Built like a tool Not a toy



Purpose-built urban chassis.

Every weld, panel, and component on Olto is designed for daily life in the city. The frame blends steel with extruded aluminum components for strength and precision. Internal cable routing, robust materials, and automotive grade componentry make Olto durable, weatherproof, and city-ready.

# Design & Build Specifications

Core Design Tenents	First Principles	Engineered for bike lanes fr	om first principles
	Fits Two Passengers	Fits two passengers with re	tractable pegs.
	Leave It Outside	Weatherproof materials and the need for indoor storage	
Materials & Construction	Main Chassis	Automated welded steel married to cast aluminum	Motorcycle-level fatigue resistance and durability
	Swingarm	Cast Al 6061-T6	Precision alignment and minimal flex
	Body	Extruded and Anodized Aluminum	Ages gracefully with use
	Plastics	UV-stable PP, self-healing	Resilient against sun, scratches, and city wear
	Brake System	200mm hydraulic discs	Exceptional stopping power even when fully loaded
	Pedal System	Swappable pedal or peg configuration	With drivetrain disengaging clutch mechanism

**Comfort Features** 

- Neutral, upright ergonomic posture with step thru design
- Magnetic pedal leveling maintains pedal position when coasting
- Rear mono-shock for different loads



## Charge faster Ride further



High-capacity swappable battery that can be charged indoors or directly on the vehicle.

Olto's UL-certified 48V battery system delivers up to 40 miles of real-world range per charge, with a full recharge in just 3 hours. A hot-swappable design means downtime is optional—just drop in a fresh pack and keep riding.

# Power & Range Specifications

Motor Output Powerful 750W nominal rear-hub motor, 2kW peak for

Motor & Battery

off road

Torque Instant torque from a standstill, ideal for quick starts and

steep inclines

Battery Type 48V Li-on, 25Ah UL-certified, 1.2kWh capacity

Battery Swap Hot-swappable, easy slide-in design under seat, 20 lbs

with integrated carry handle

Charging Capability Full charge in 5.5 hours with included charger, 3 hours

using fast charger

Smart Battery Advanced battery management system (BMS) with cell-Management level balancing, thermal throttling, and OTA firmware

updates for optimal battery health

Why 48V? Safer voltage level reduces shock risk, perfect for urban

apartments and easy handling

Range & Performance Approximately 40 miles per full charge, optimized for

mixed urban riding conditions

Ride Ergonomics Magnetic pedals double as footpegs with assist,

adaptable for diverse riding preferences

Localized Tuning App-based customization allows compliance with local

e-bike laws, adjustable power and speed limits

Boost Mode & Reverse Handlebar-triggered 5-second power boost and reverse,

safeguarded by thermal cooldown

## Easy to notice Hard to steal



Olto's Infinite Security™ system locks the steering and motor automatically, with GPS, LTE, and AirTag tracking for backup. A secondary battery keeps alarms active even without the main pack. For additional protection, Olto has a specific area for a U-Lock.

# Infinite Security and Safety Features

Security Features Electronic Locks Steering and wheel auto-lock upon power down

Olto-linked Components Motor, battery, and controller digitally paired

Alarm System Audible and visual alerts triggered by movement

Multi-Channel Tracking Integrated LTE, GPS, and hidden AirTag cavity

Integrated U-Lock Secure frame-mounted lock with spot to hold a U-lock

Auxiliary Backup Cell Keeps alarm and GPS live without the main battery

Headlight 1,120 lm LED matrix with daytime running halo

Turn Signals Integrated front and rear LED indicators

Horn 98 dB motorcycle-grade horn to cut

through city noise

Certifications UL-certified (2849, 2271)

Rear Visibility Included Mirrors



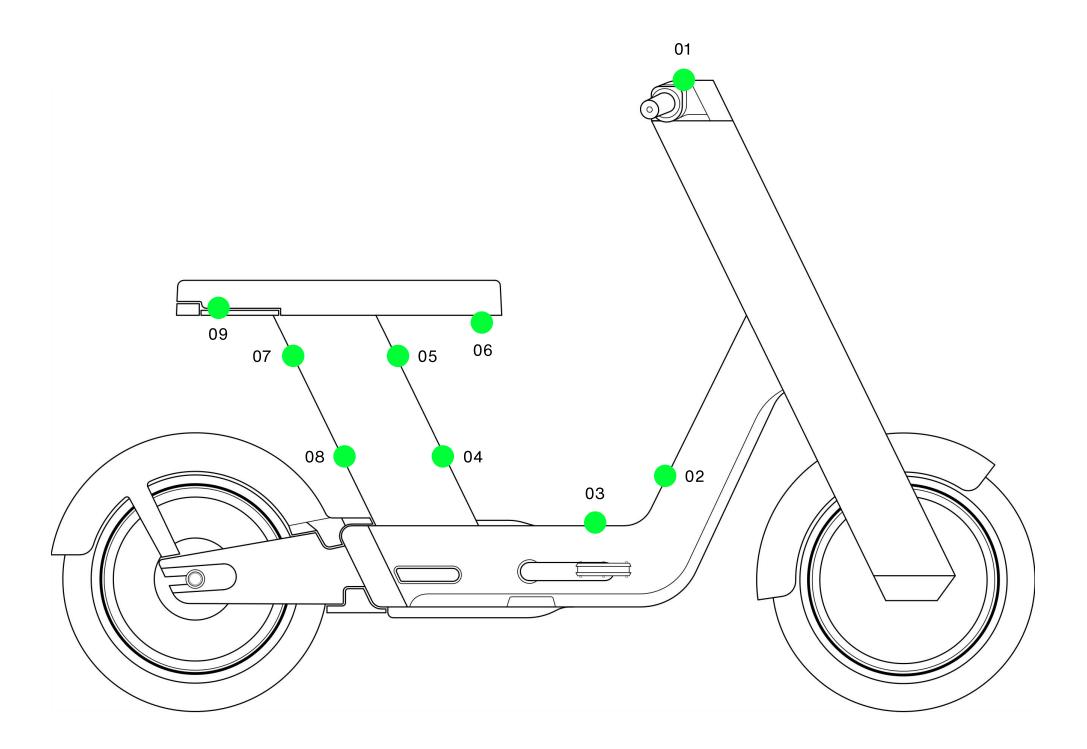
### Endlessly modular Olto is for all



Olto is made to adapt to any lifestyle.

Mounting points and removable sidewall inserts give Olto built-in utility. Rear M8 mounts support racks, baskets, or kid carrier. Built in helmet pegs and under-seat hooks add flexible storage options throughout.

## Multiple mounts for maximum flexibility



01 - Mirror & Phone Mounts Mirror mounts provide support for front-mounted accessories, phone holder adjusts to different sizes

04 — Bottle Cage Holder 2 sets of bottle cage screws for mounting accessories

07 — Heavy Duty Mounts 4 high load bearing mounting points

02 - Side Walls

Slots for side walls and other similar accessories

05 — U-Lock Holder Mount Mount to hold U-Lock Holder

08 — Low-Heavy Duty Mounts 2 high load bearing mounting points for additional support and trailer hitch

03 — Floor Mounts

Floor mounts provide support for accessories and cargo

06 — Under-Seat Hooks

2 Hooks located under the seat

09 — Handle Mount

Removable handles that also serve as mounting point



01 — Rear RackA rack built for mounting baskets or bags to Olto



02 —Side Rack
A rack for mounting a bag,
laptop, skis, or tennis bag



03 – Kid CarrierA dedicated carrier for kids,mounted directly behind the seat



04 — Sidewalls

Add-on interior walls for Olto to securely hold your gear



05 — U-Lock Mount
A dedicated mount for your
Olto's U-Lock



06 — Accessory Plate
A plate to mount a speaker,
camera, or any accessory with a
standard 1/4-20 thread mount



07 — Phone Holder

Mount your phone on your Olto
for easy access



08 — Rear Basket
A spacious basket for
everyday cargo



09 — Center Stand
A stand to keep Olto upright while mounting accessories



10 — Side Mounting PlateSlim rack for light gear or lock storage

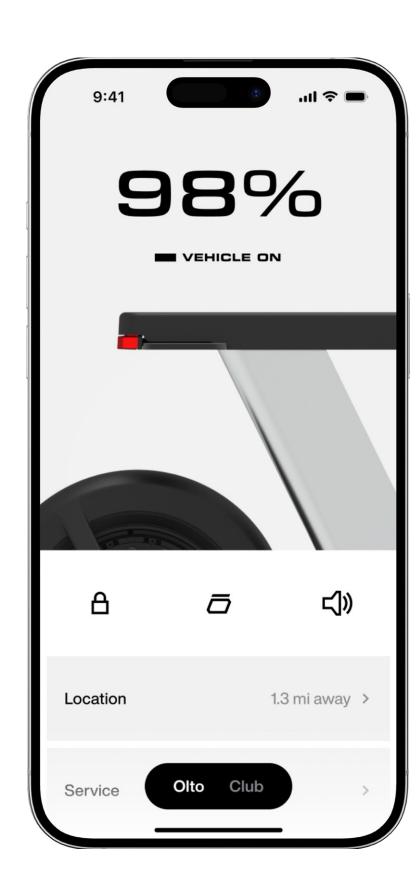


11 — Super Charger
Fast charger that charges Olto's battery 60% in less than 1 hour



12 — Charging DockAt home dock for charging and storing batteries

#### Connected ride Seamless control



Walk up and ride.

Olto automatically unlocks when you walk up to it and locks when you walk away. The dedicated Infinite Machine app allows remote lock/unlock, vehicle sharing, GPS tracking, and OTA updates.

## Interface & IM App Specifications

App & Experience Features NFC Unlock Tap-to-ride with NFC Card

Digital Key Sharing Grant temporary or permanent access to

friends or family

Ride Analytics Track distance, speed, power output, and

route history

Over the Air Updates Receive firmware and performance upgrades

wirelessly

State Specific Performance Customize speed/power limits by location to

stay legal everywhere

Theft Alerts Real-time tamper notifications with GPS

tracking

Remote Lock / Unlock Lock or unlock the vehicle via phone from

anywhere

Battery Health View battery cycles, charge levels, and system

Monitoring diagnostics













#### Technical Features

#### 1 OVERVIEW & GENERAL FEATURES

- Vehicle Type: Class adjustable e-bike designed specifically for the-bike lane.
- Top Speed: 20 mph in bike lanes, 33 mph off-road.
- Legal Requirements: No insurance, license, or registration needed.
- Propulsion Type: Pedal Assist or Throttle.
- Design Philosophy: First principles bike lane vehicle.
- Designed to be left outside.
- Automotive-grade components in a bicycle form factor, purpose-built from scratch, without off-theshelf components.

#### 2 BATTERY & POWER SYSTEM

- Battery Type: Removable, hot-swappable nominal 48V battery, insertable in either direction. (48V is the safest for humans)
- Capacity & Range: 1.2 kWh, approximately 40 miles per charge.
- Battery Weight: 20 lbs, easy to carry with integrated handle.
- Charging:
  - Standard charger (~6 hours)
  - Supercharger (~3 hours).
  - Dedicated battery dock for home charging.
- Battery Management System (BMS): Onboard computer for optimal power management, overheating protection, and battery health.
- Safety Certifications: UL-certified battery and charger, legal in major cities (e.g., NYC).

#### 3 INFINITE SECURITY

- Physical Steering Lock: Automatically engages a steering lock when turning off the vehicle which prevents handlebar turning.
- Electric Wheel Lock: Rear motor will activate if there is tampering.
- Movement Notifications: Immediate phone notifications upon vehicle tampering.
- AirTag Compartment: Secure internal compartment for Apple AirTag tracking.
- GPS Tracking: Built-in GPS with cellular connectivity for real-time location tracking globally.
- Battery & Component Locking: Battery, motor, and controller are electronically locked to Olto vehicles only.
- Auxiliary Battery: Detects movement and triggers an alarm even when main battery is removed.
- Lock Mounting Point: Special U-lock mount built into kickstand for secure parking.

#### 4 MOTOR & PERFORMANCE FEATURES

- Motor: Powerful 2 kW rear-wheel hub motor. Software limited to 750 W.
- Localized Performance: App-based speed and power tuning to comply with local e-bike laws. Software allows us to adjust specifications by state and class.
- Pedals or Pegs: Innovative magnetic pedals that function as either footpegs or functional pedals with pedal-assist capability configurable with drivetrain disengaging clutch mechanism
- Boost Mode: Temporary high-power acceleration mode activated via handlebar controls, screen visually indicates boost activation and recharge time.

#### 5 DESIGN & CONSTRUCTION

- Materials: Premium machined and extruded aluminum components with UV-resistant PP plastics.
- Invisible Wiring: There are no visible wires.
- Robust Frame Construction: Steel chassis married to cast aluminum billet, cast swing arm, extensively durability-tested (10k km dyno test)
- Hidden Rear Suspension: Integrated rear suspension with a sleek, visually minimalist design.
- Bespoke Industrial Design: Every button, pedal, fender, and control is custom-designed for optimal ergonomics and aesthetics.
- Hydraulic Disc Brakes: High-performance motorcyclegrade hydraulic brakes for maximum stopping power.
- Two Colors: Silver and Black.

#### 6 STORAGE & ACCESSORIES

- Under-seat Storage: Storage area beneath cantilevered seat.
- Insertable Sidewalls: Removable panels creating secure storage compartments for groceries, pets, or personal items.
- Universal Accessory Mounts: Multiple screw mounts compatible with standard bicycle accessories and custom Infinite Machine add-ons
- Launch Accessories
  - Kid Carrier
  - Rear Rack
  - Basket
  - Side Mount Plate
  - Front Accessory Plate
  - U-Lock Holder
- Passenger-friendly: Integrated rear foot pegs and optional modular racks, seats, and backrests for multiple passenger configurations.
- Bring your Kids: Accessory to safely transport your children.
- Two Dedicated Helmet Hooks: Helmet hooks secured beneath seat for convenient storage.
- Infinite Modular Platform: Back screws enable endless customization (racks, trailers, child seats).

#### 7 USER INTERFACE & CONNECTIVITY

- High Lumen Screen: Minimalist and informative UI with key ride data.
- NFC & Smartphone Integration: Tap-to-activate with NFC cards; Bluetooth-enabled phone unlock (just walk up to it).
- Dedicated App: Control vehicle settings, lock/unlock, theft alerts, GPS tracking, and performance customization.
- Integrated Charging for Devices: Built-in USB charging port with secure compartment.

#### 8 COMFORT & ERGONOMICS

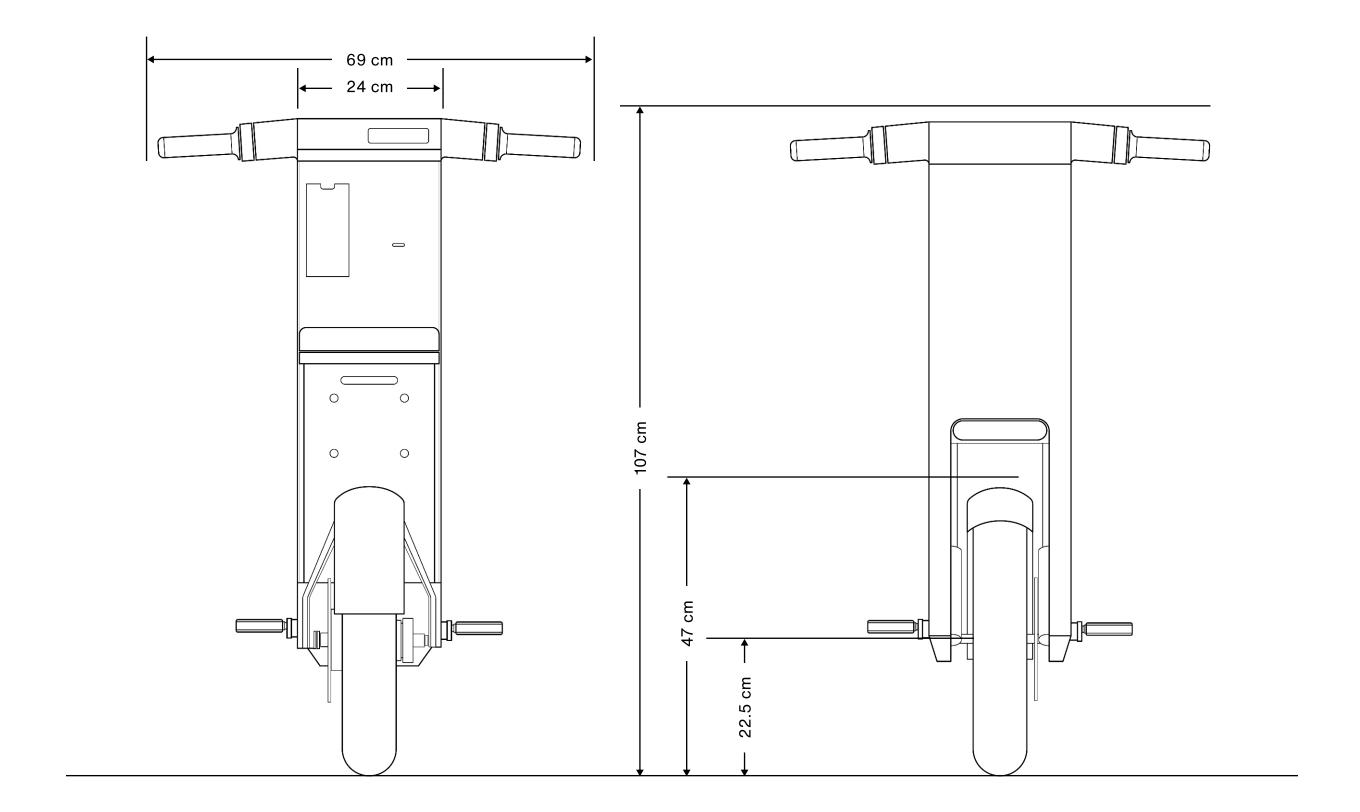
- Two-Person Comfort: Designed specifically for comfortable two-person riding with thoughtful ergonomics.
- Hidden Passenger Foot Pegs: Integrated seamlessly into the frame.
- Flexible Pedals: Ergonomic foot peg or pedal configuration to suit rider preference.
- Magnetic Pedal Alignment: Hidden magnets enable the pedals to be level at all times.

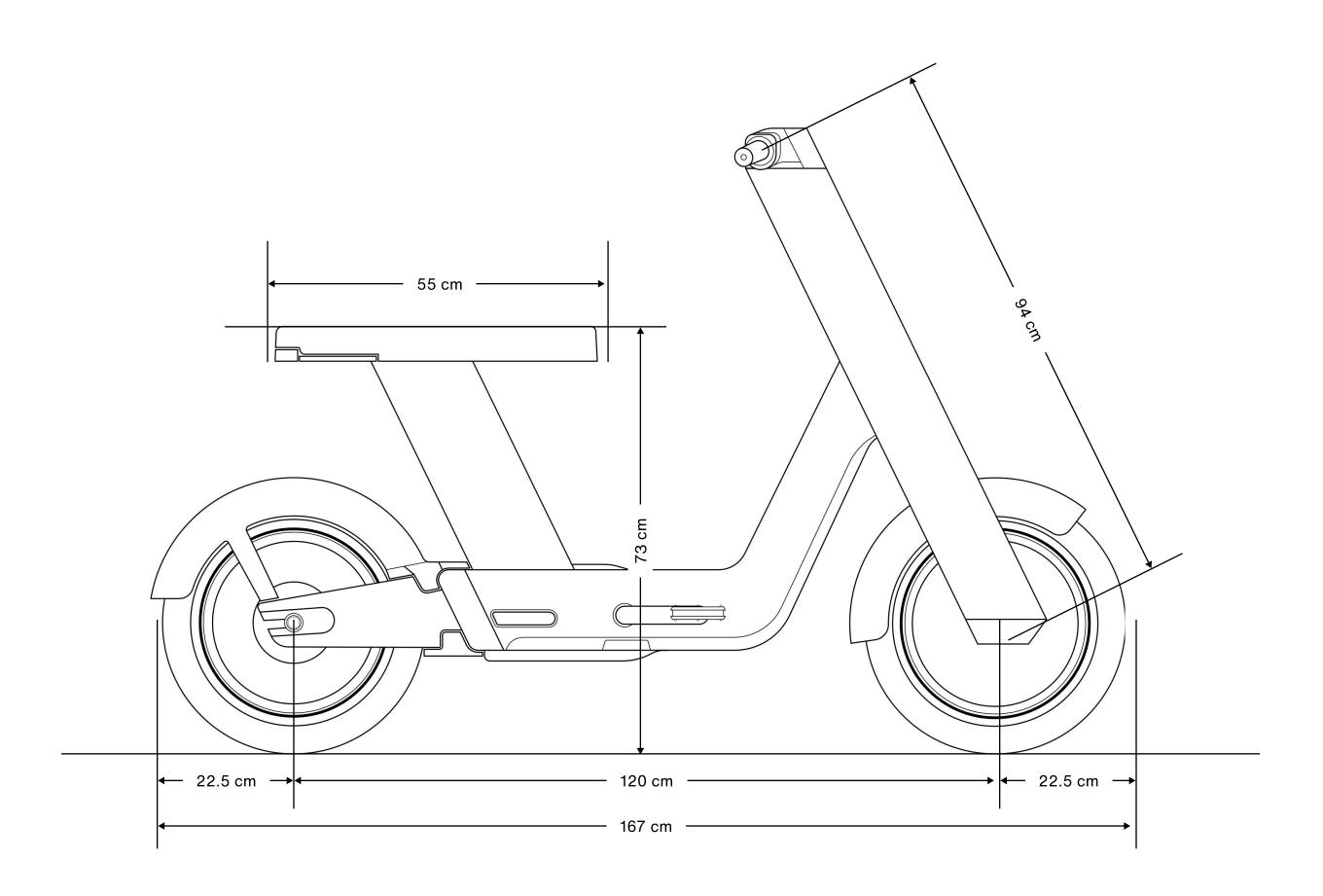
#### 9 SAFETY & VISIBILITY

- Lighting System: Powerful integrated LED headlights with high/low beam settings, ability to turn off the lights.
- Keep it Outside: Designed for outdoor storage with weather-resistant, durable materials and construction.
- Turn Signals: Standard integrated turn signals enhancing rider visibility and safety.
- Real Horn: Loud motorcycle-grade horn instead of typical e-bike bells.
- Included Mirrors: Standard issue rear-view mirrors for improved safety and visibility.

# Technical Specifications

NO.	SPECIFICATION	METRIC	IMPERIAL
1	Top Speed	54 km/h	33.6 mph
2	Range	67 km @20 km/h	41.6 mi @ 12.4 mph
		56 km @30 km/h	34.8 mi @ 18.6 mph
		45 km @40 km/h	28.0 mi @ 24.9 mph
		36 km @50 km/h	22.4 mi @ 31.1 mph
3	Motor Type	Rear Hub Motor	Rear Hub Motor
4	Max Motor Power	2 kW	2.68 hp
5	Nominal Motor Power	750 W	1.01 hp
6	Controller Type	FOC	FOC
7	Controller Max Current	60 A	60 A
8	Throttle Type	Hall sensor	Hall sensor
9	Battery Capacity	Nominal: 25 Ah, Rated (Min.): 23.2 Ah	Nominal: 25 Ah, Rated (Min.): 23.2 Ah
10	Charge Time (basic 6a charger)	5.5 hrs	5.5 hrs
11	Charge Time (fast 14a charger)	3 hrs	3 hrs
12	Battery Weight	9 kg	19. 8 lb
13	Voltage	50.4 V	50.4 V
14	Battery Cell Type	Cylindrical-NCA	Cylindrical-NCA
15	USB	TRUE	TRUE
16	NFC Unlock	TRUE	TRUE
17	Smart Unlock	TRUE	TRUE
18	Bluetooth Connectivity	TRUE	TRUE
19	OTA Upgrade	TRUE	TRUE
20	Front Brake Type and Disc Size	Hydraulic Disc: 200 mm	7.87 in
21	Rear Brake Type and Disc Size	Hydraulic Disc: 190 mm	7.48 in
22	Front Suspension Type and Travel	Fork; Travel 60 mm	2.36 in
23	Rear Suspension Type and Travel	Center; Travel 21 mm	0.83 in
24	Front Tire Size	90/80-12	90/80-12
25	Rear Tire Size	90/80-12	90/80-12
26	Seating Weight Capacity / Max Load	160 kg	352.7 lb
27	Vehicle Weight with Battery	80 kg	176.4 lb
28	Vehicle Weight without Battery	70 kg	154.3 lb
29	LED Headlight Lumen	High beam: 1120 lm	High beam: 1120 lm
30	LED Brake Light Lumen	Low beam: 560 lm	Low beam: 560 lm
31	LED Tail Light Lumen	Tail light brake: 261 lm	Tail light brake: 261 lm
32	Dashboard / Screen Type	TFT/109 mm	4.3 in
33	Overall Vehicle Length	1670 mm	65.8 in
34	Overall Vehicle Width	693 mm	27.3 in
35	Overall Vehicle Height	1076 mm	42.4 in
36	Wheelbase	1200 mm	47.2 in
37	Seat Height	740 mm	29.1 in
38	Seat Length	550 mm	21.6 in
39	Ground Clearance	158 mm	6.2 in
40	Rack and Trail	26 / 110 mm	26° / 4.3 in





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We believe the best way to get around cities is with smaller, smarter vehicles. We started Infinite Machine to build the best of them. Olto is our second product—and for many, their first step beyond cars. A Class 2 e-bike built for the-bike lane. No insurance, no registration—just freedom. A product and a tool.

Infinite Machine isn't about autonomous vehicles. It's about autonomous humans—tools that let people carve their own path. And while we built Olto to help take you places, we can't wait to see where you take Olto.



# INFINITE MACHINE Ships Fall 2025