

OLTO



EU Spec — Product Guide

INFINITE MACHINE

Non-cars for the future



Infinite Machine creates extraordinary personal electric vehicles. 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.



Street friendly Automotive grade

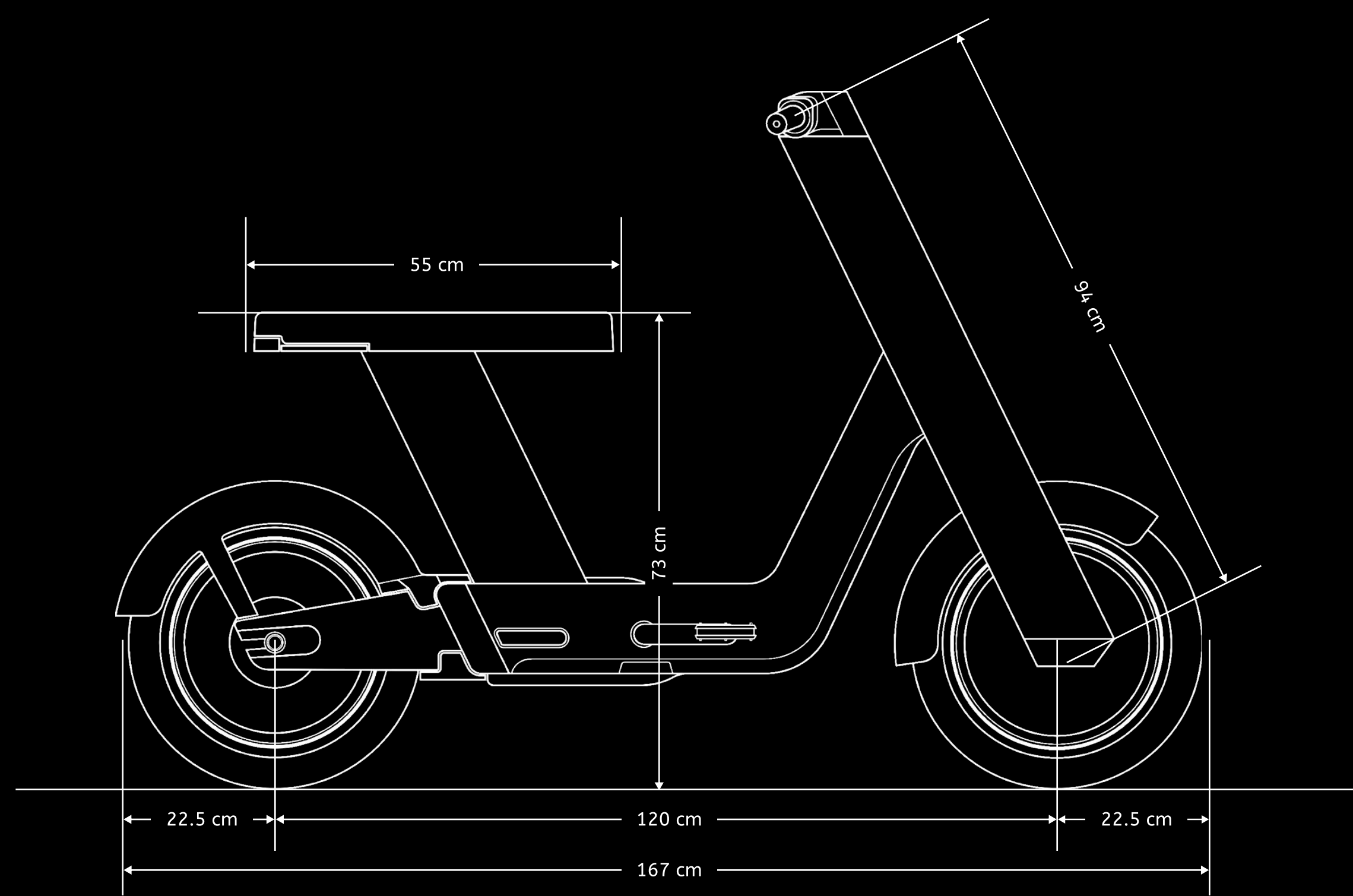


This is Olto.

Olto is a new kind of vehicle—rethought from the ground up. With 2000 watts of power, 60 km 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 is weatherproof. Every detail—from invisible cabling to footrests—was built to reduce friction and increase joy.

OLTO

Overview



Feature	Specification
Vehicle Class	L1e-B Electric Moped
Top	45 km/h
Drive Mode	Eco, Pro, Reverse
Passengers	2
Real-World Range	40-60 km (with swappable batteries)
Battery System	48V, 25Ah, 1.2kWh, removable & hot-swappable
Charging	0-80% in 80 minutes
Curb Weight	80kg including battery
Weather-Proof Build	Fully sealed and anodized for outdoor use
Colors	Silver and Black
Shipping Timeline	Spring 2026

Built like a tool Not a toy



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 from the ground up	
	Fits Two Passengers	Fits two passengers	
	Leave It Outside	Weatherproof materials and Infinite Security eliminate 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	IP Rated and Sealed
	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
Comfort Features	▪ Neutral, upright ergonomic posture with step thru design ▪ Rear mono-shock accomodates 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 60 kilometers 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 & Battery	Motor Output	Powerful 2000W nominal rear-hub motor
	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 Management	Advanced battery management system (BMS) with cell-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	Real-World Range	Approximately 40-60 km per full charge, optimized for mixed urban riding conditions
	Ride Ergonomics	Designed for superior ride ergonomics
	Localized Tuning	App-based customization allows compliance with local 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 and LTE. We also have a spot for an AirTag 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 with user notifications
	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
Safety	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



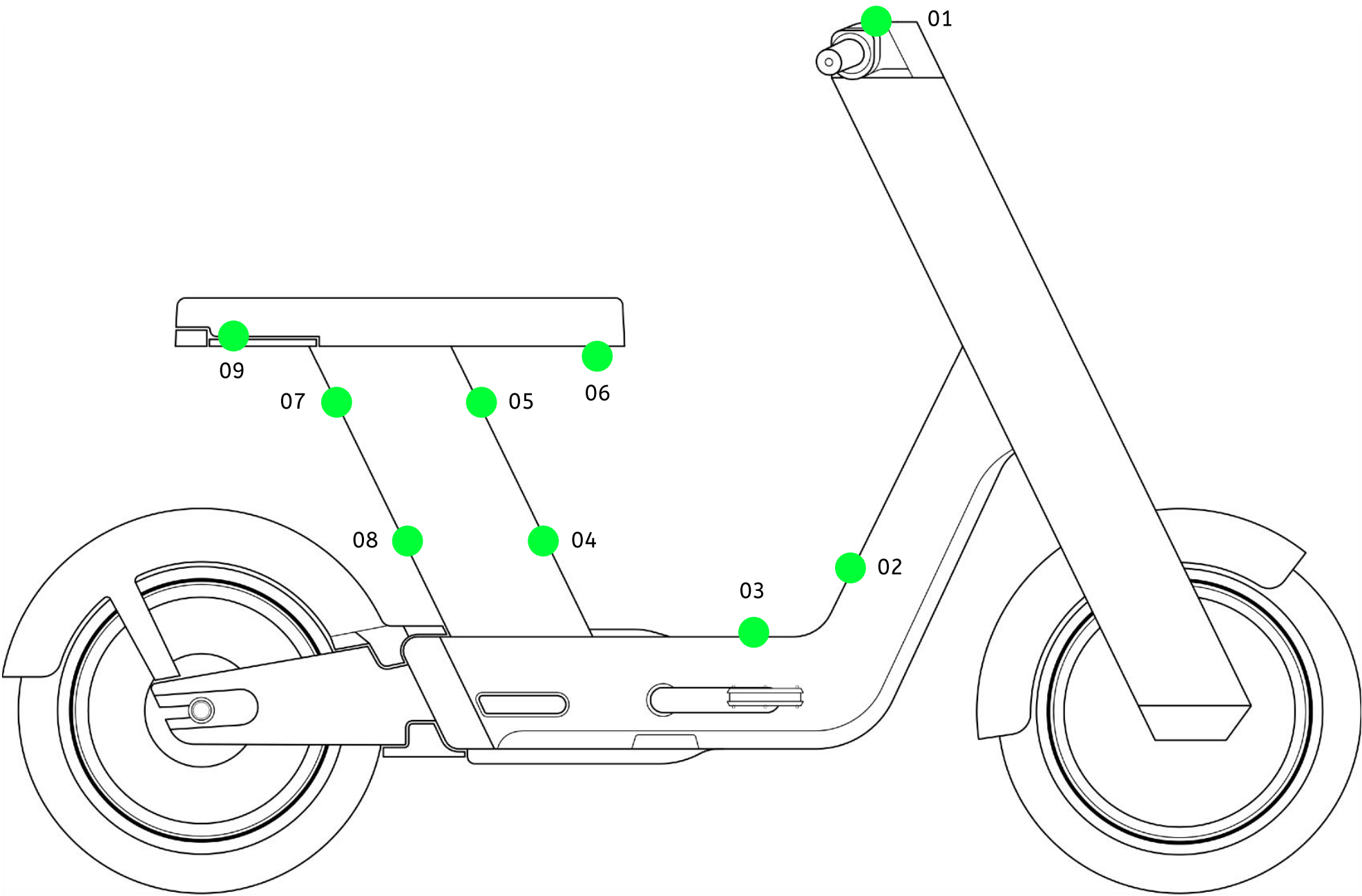
Endlessly modular Olto is for all



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

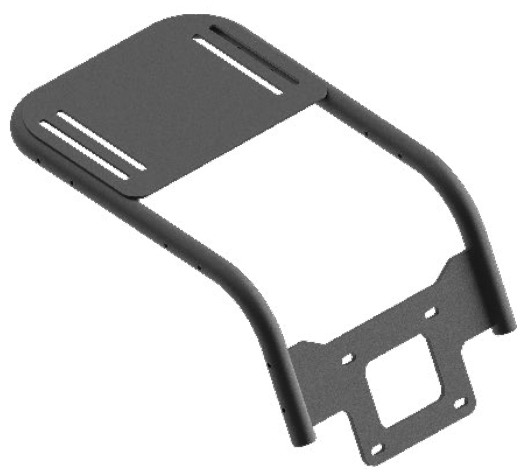
05 — U-Lock Holder Mount
Mount to hold U-Lock Holder

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 Rack

A rack built for mounting baskets or bags to Olto



02 —Side Rack

A rack for mounting a bag, laptop, skis, or tennis bag



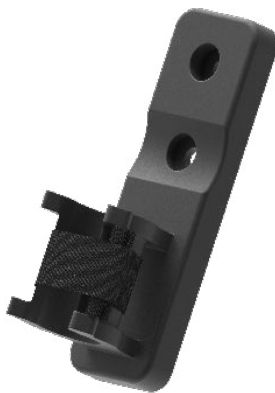
03 — Kid Carrier

A dedicated carrier for kids, mounted directly behind the seat



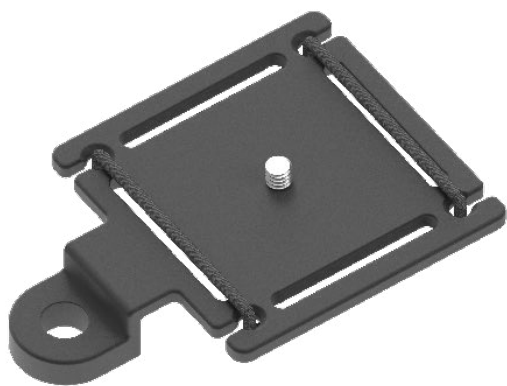
04 — Sidewalls

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



05 — U-Lock Mount

A dedicated mount for your Olto's U-Lock



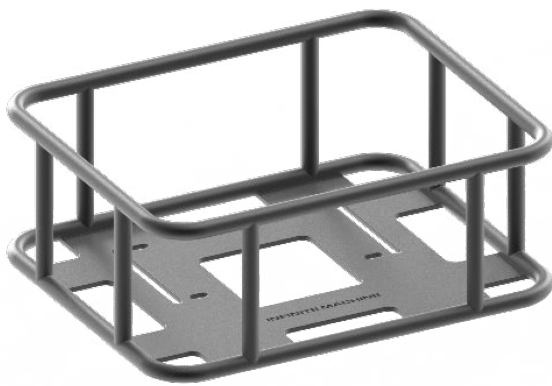
06 — Accessory Plate

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 Plate

Slim rack for light gear or lock storage



11 — Super Charger

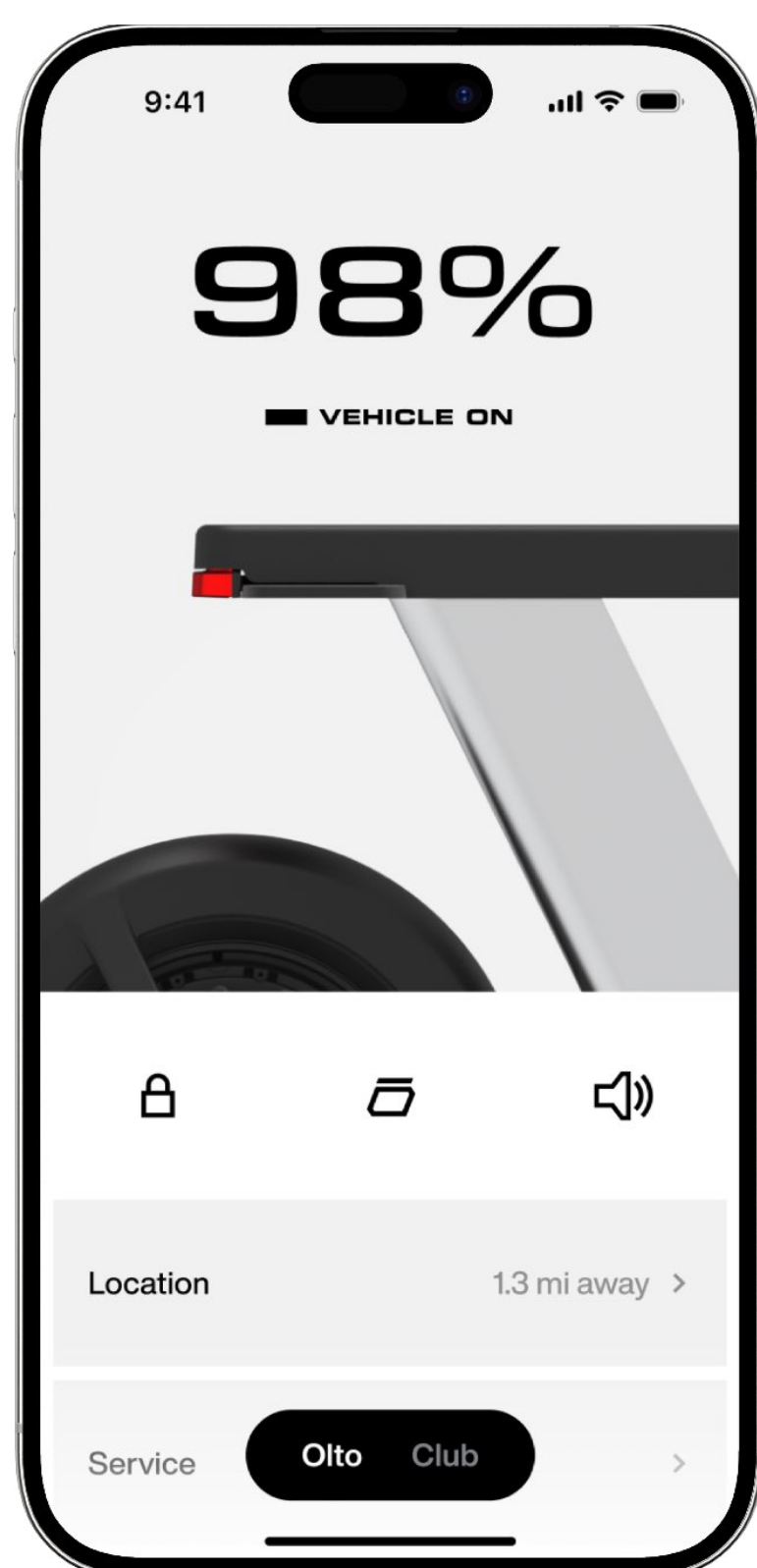
Fast charger that charges battery 80% in bit more than an hour



12 — Charging Dock

At 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 Monitoring	View battery cycles, charge levels, and system diagnostics



Technical Features

1 OVERVIEW & GENERAL FEATURES

- Vehicle Type: L1 Electric Moped
- Top Speed: 45 km/h
- Propulsion Type: Throttle.
- Design Philosophy: First principles vehicle.
- Designed to be left outside.
- Automotive-grade components purpose-built from scratch.

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 40-60 km per charge.
- Battery Weight: 9 kg, easy to carry with integrated handle.
- Charging:
 - Standard charger (~6 hours)
 - Supercharger (~3 hours)
 - 80% in a little over one hour
 - 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, ECE Compliant, legal in major cities

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.
- Localized Performance: App-based speed and power tuning to comply with local laws. Software allows us to adjust specifications by state and class.
- 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 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 motorcycle-grade 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

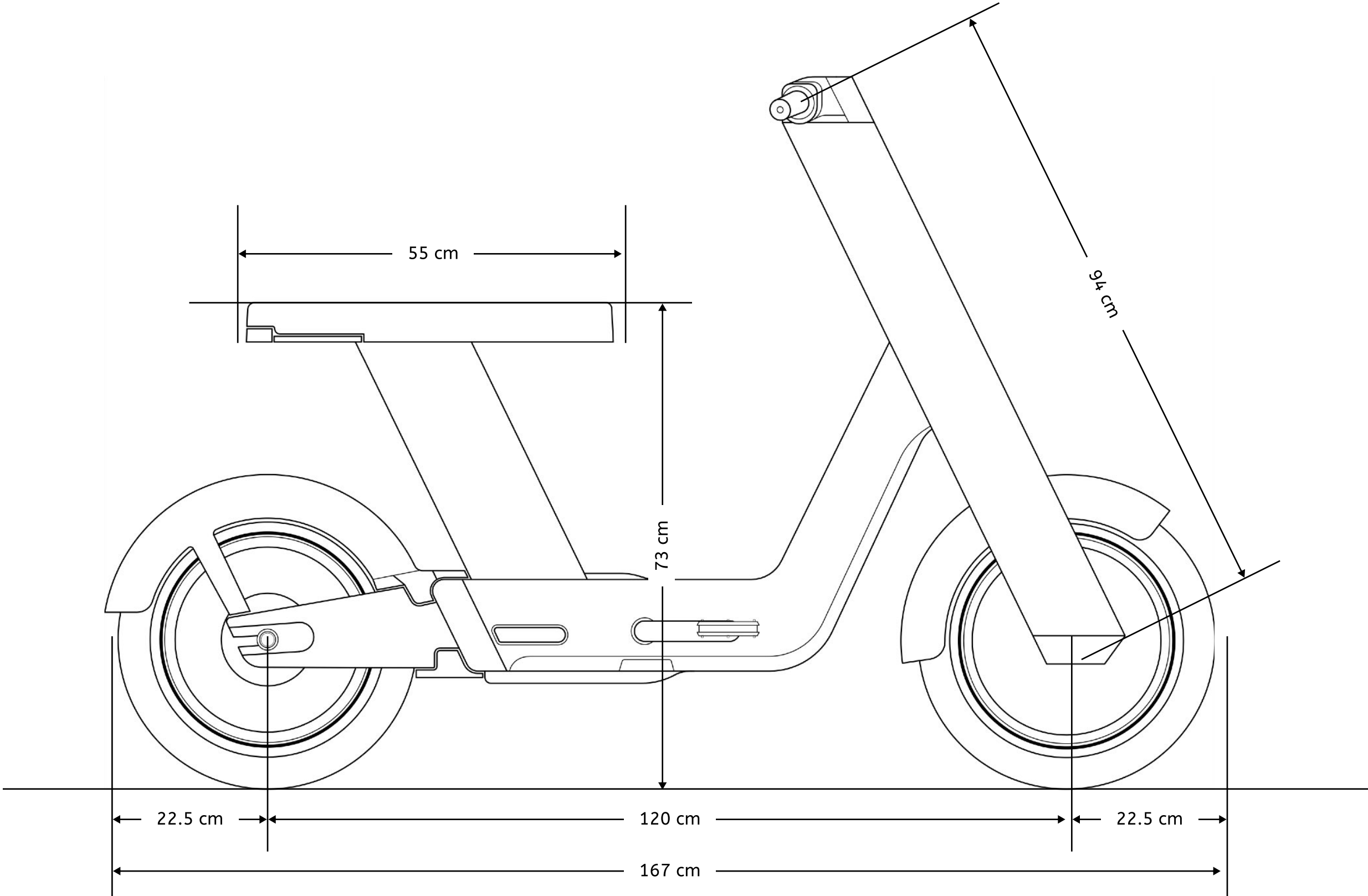
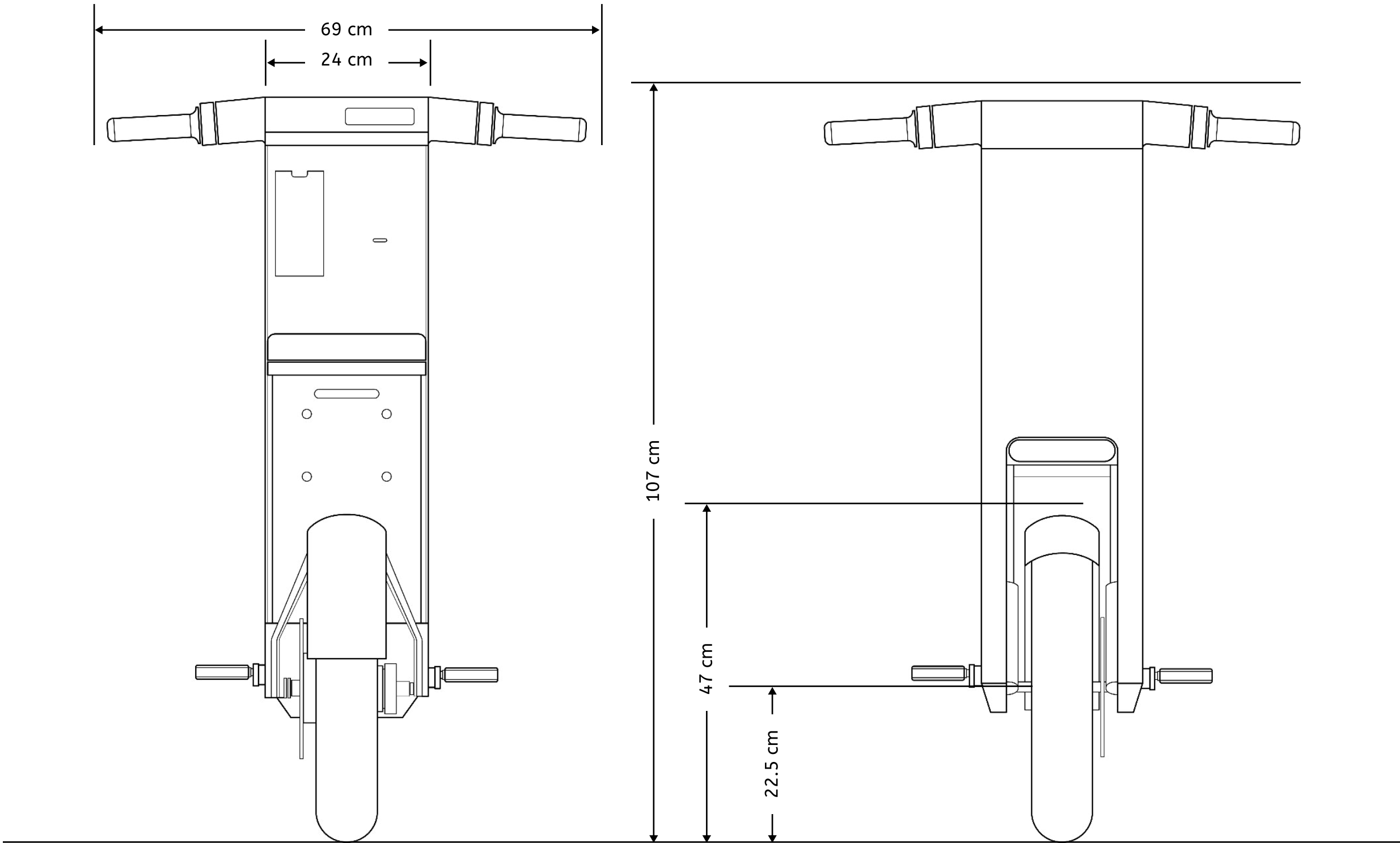
- Two-Person Comfort: Designed specifically for comfortable two-person riding with thoughtful ergonomics.

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
- Included Mirrors: Standard issue rear-view mirrors for improved safety and visibility.

Technical Specifications

PERFORMANCE	IMPERIAL	METRIC
Top Speed	33.6 mph	54 km/h
Range	41.6 mi @ 12.4 mph 34.8 mi @ 18.6 mph 28.0 mi @ 24.9 mph 22.4 mi @ 31.1 mph	67 km @20 km/h 56 km @30 km/h 45 km @40 km/h 36 km @50 km/h
Controller Max Current	60 A	
Max Motor Power	2 kW	
Charge Time (0-80% @ 6A)	1 hrs	
Charge Time (0-80% @ 12A)	3 hrs	
DRIVETRAIN		
Voltage	50.4 V	
Controller Type	Field-Oriented Control (FOC)	
Motor Type	Rear Hub Motor	
Throttle Type	Twist	
Battery Capacity	Nominal: 25 Ah, Rated (Min.): 23.2 Ah	
Battery Cell Type	Lithium Ion 21700 cells	
Battery Weight	19.8 lbs	9 kg
DIMENSIONS		
Front Brake Type and Disc Size	Hydraulic Disc; 7.87 in	200 mm
Rear Brake Type and Disc Size	Hydraulic Disc; 7.48 in	190 mm
Front Suspension Type and Travel	Spring Fork; 2.36 in	60 mm
Rear Suspension Type and Travel	Center Spring; 0.83 in	21 mm
Front Tire Size	90/80-12	
Rear Tire Size	90/80-12	
Seating Weight Capacity / Max Load	352.7 lb	160 kg
Vehicle Weight with Battery	176.4 lb	80 kg
Vehicle Weight without Battery	154.3 lb	70 kg
Overall Vehicle Length	65.8 in	670 mm
Overall Vehicle Width	27.3 in	693 mm
Overall Vehicle Height	42.4 in	1076 mm
Wheelbase	47.2 in	1200 mm
Seat Height	29.1 in	740 mm
Seat Length	21.6 in	550 mm
Ground Clearance	6.2 in	158 mm
Rack	26°	
Trail	4.3 in	110 mm
TECH		
Accessory Charging	USB-A/USB-C	
Power On/Off	NFC; BLE	
Connectivity	BLE; LTE; GPS	
LED Headlight Lumen	High beam: 1120 lm Low beam: 560 lm	
LED Tail/Brake Light Lumen	261 lm	
Dashboard / Screen Type	TFT; 4.3 in	110 mm



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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 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.



A close-up, high-angle photograph of a black pen nib. The nib is positioned diagonally across the frame, pointing towards the top right. The background is a soft, out-of-focus light blue. The word "OLTO" is superimposed in a bold, white, sans-serif font over the lower part of the nib.

OLTO