

# ALPHA H<sub>2</sub> BIKE



ALPHA H<sub>2</sub> BIKE The first commercially available hydrogen powered e-bike - developed to meet today's energy and eco-mobility demands.

## 2 mn INSTANT REFILL

Compared to conventional electric bikes, the H<sub>2</sub> ALPHA BIKE is **refilled with hydrogen in less than 60 seconds** using a convenient H<sub>2</sub> filling station.

## 145 km EXCEPTIONAL RUN-TIME

The fuel cell and integrated hydrogen storage delivers an **unrivaled range of over 90 miles** on a single charge.

- ✓ **Delivered energy: 780 Wh**
- ✓ **H<sub>2</sub> tank: 300 bar**
- ✓ **Motor assisted up to 25 km/h**
- ✓ **Broad operating temperature range:**  
Heat or cold has no effect on distance or speed.
- ✓ **Lowest carbon footprint: 0,2g/km**



# CHARACTERISTICS H2 ALPHA BIKE

## TECHNICAL CHARACTERISTICS

TYPE OF VEHICLE	..... Pedal assisted bicycle compliant with EN 92/61/EEC
ENGINE	..... Central engine Brose
POWER	..... 250 W max.
WORKING TENSION	..... 36 V
TORQUE	..... 90 Nm max
WEIGHT	..... 32 Kg
DIMENSIONS	..... L : 1865 mm x H : 1041 mm x W : 650 mm
NORMS / CERTIFICATIONS	..... NF EN 15194 (01/2009) + A1 (01/2012) and NF EN ISO 4210-2 04.2018

## ENERGY SUPPLY PACK

TECHNOLOGY	..... PEM fuel cell
TYPE OF FUEL	..... Dihydrogene (H2) with min. 99,95% purity
MAXIMUM FUEL LOAD	..... 42 g
MAX. WORKING PRESSURE	..... 300 bars
TYPE OF CONNECTOR	..... Staubli RBL03.6250/IC
BUFFER BATTERY	..... Lithium 10S2P battery
POWER SWITCH	..... Back lighted ON/OFF switch
STARTING TEMPERATURE RANGE	..... 0°C → + 45°C
WORKING TEMPERATURE	..... - 20°C → + 60°C

## USABILITY

CONTROL	..... Digital display
FRAME	..... Universal aluminium frame, Size M Adjustable seatpost from 1.55m to 1.95m
ASSISTANCE	..... Up to 25 Km/h
ASSISTANCE PATTERN	..... Proportional to the pedaling power with torque sensor
LEVELS OF ASSISTANCE	..... Cruise 40% of the torque ..... Tour 120% of the torque ..... Sport 300% of the torque ..... Walking assistance 4Km/h
DISPLAYED DATA	..... Instant speed ..... Average speed ..... Total distance ..... Trip distance ..... Time / duration of ride
AUTONOMY	..... Between 120 and 150 Km
GEARBOX	..... Continuous variation transmission
BRAKES	..... Hydraulic disc brakes
SUSPENSION	..... Suspension adjustable fork suspension
LIGHTING	..... Automatic power on, front and rear led lighting
WHEELS & TYRES	..... 27.5" X 200 with reinforcement
ACCESSORIES	..... mudguards, luggage rack, kickstand, GPS (option)
HANDLEBAR	..... Adjustable