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NEW BOOSTBIKE SMART ELECTRIC BIKE; FUTURE TECHNOLOGY IN COOPERATION WITH L7 DRIVE LTD.

Helsinki, November 13, 2019. Cycling is fun and safe on all surfaces and in all seasons: The new Boostbike Smart Electric Bike introduces a new electric powertrain solution in the urban segment for the year 2020. The traditional way to build a bicycle electric powertrain requires raising the battery voltage to the desired level (usually 36V) by connecting a large number of battery cells in series. Cell management requires Battery Management System (BMS), which, in order to keep the costs in control, is generally not of sufficient quality to maintain the balance of battery cells. When the battery cells become unbalanced, only the capacity common to all cells is available. In practice, this means performing on terms of the weakest individual cell. The parallel connection technology, developed by L7 Drive Ltd., eliminates this problem altogether and always guarantees operating with the entire capacity available from the battery. The battery pack also has a longer lifetime, as all the cells are efficiently used within the limits of their respective capabilities.

BOOSTBIKE SMART ELECTRIC BICYCLE: THE SOLUTION FOR TOMORROW'S CYCLIST

Developed by the L7 Drive, the Boostbike controller is a single-device solution that turns everything in electric powertrains the other way around. "We start by connecting the desired number of lithium-ion cells in parallel so that they behave like a single large cell with a 3.6V voltage. Our patented technology raises the battery voltage to the motor in real time and only as much as is needed in each driving situation. This way we can get the best efficiency also at partial load, which is used most of the time in urban areas" explains Daniel Salonen, CTO of L7 Drive Ltd.

- No need for Battery Management System (BMS). The cells are always balanced. The parallel circuit automatically balances the voltage of each cell.
- Full capacity is always available. One weak cell does not dictate the usable capacity or the performance.
- Only one device is required. The L7 Drive control unit takes care of battery control, motor control and also controls charging.
- Bidirectional voltage conversion allows the battery to be charged from unstable power sources such as solar panels without the need for additional electronics. Braking energy recovery is also possible.

- With L7 Drive technology, maximum power is available regardless of motor speed, so you can get more launch power from standstill compared to traditional motor drive systems of same power when you start than on conventional electric bikes with the same power.
- A GPS anti-theft alarm is standard on the Boostbike Smart Bike
- If the Boostbike Smart Bike is stolen, its electrical assistance system locks automatically and cannot be opened by anyone other than the owner. The manufacturer also needs the owner's permission to open.
- With the Boostbike mobile app, you can give a friend permission to borrow your smart bike.
- With the Boostbike mobile app, you can also keep track of where your bike is located, if you have lend it to a friend.
- Our Smart Bike is also able to notify the manufacturer of bike malfunction thanks to the L7 Drive control unit.
- The Boostbike Mobile app is able to order maintenance by itself in case of a system failure.
- Users can follow their own cycling routes with the Boostbike mobile app.
- The application shows the total amount of energy used by the bike along the route.
- New features are constantly being developed.

BOOSTBIKE is now offering a new intelligent electric bike that combines the benefits of the L7 Drive control unit with a high-quality electric bike. During the 2020 season, BOOSTBIKE will launch a number of different electric bikes in its lineup. The following options will be available: front suspension, rear suspension, wide all-terrain tires, powerful lighting system, robust luggage rack, fenders and practical cycle stand.

New intelligent bike models are also designed for freight applications, such as courier services and parcel delivery. "We are developing new models for cyclists, who intend to use their bicycles in a variety of ways. These new electric bikes are extremely stable and durable, ideally suited to carry goods, but also appeal to athletic cyclists," says Jani Jokinen of BOOSTBIKE.

BOOSTBIKE SMART ELECTRIC BIKES are available from Electrobike dealers and retailers from April 2020, starting at EUR 1,899.00 (RRP)

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ELECTROBIKE is a Finnish electric bicycle company founded in 2009. The company offers its customers the most comprehensive range of high-quality electric assisted bicycles, accessories and maintenance services in Finland. Our knowledgeable staff ensures that the customers will receive high-quality electric bicycle products, expert guidance and a wide range of electric bicycle maintenance services. ELECTROBIKE currently operates in nine locations.

