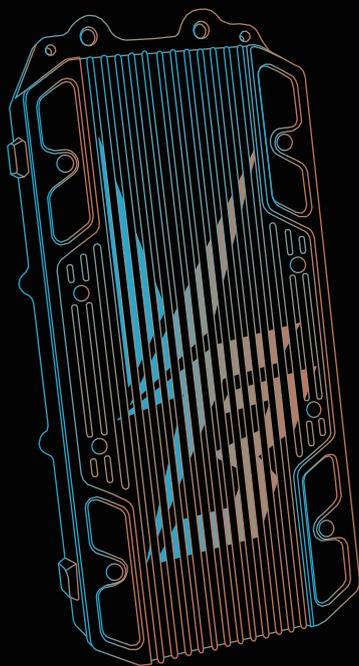


VTB

Venture To Begin!



ΔΕΤΟΣ

VEEQ GEN2



Let Your Adventure Begin with V9600 GEN2 AETOS

● Born for an exceptional user experience, it delivers outstanding heat dissipation and current handling performance. Built as solid as a rock and guarded like Zeus's shield, it's ready to conquer any terrain. Combined with precise throttle control, it offers power and stability for every ride. Every journey is safeguarded for you.



KEY SPECS			
Model	AETOS PRO (Rated power 72V)	AETOS MAX (Rated power 96V)	AETOS ULTRA (Rated power 118V)
Voltage	100V(Breakdown@ 112V)	120V(Breakdown@ 138V)	150V(Breakdown@ 170V)
Phase Current	1200A (Tested to 1600A)	960A (Tested to 1300A)	760A (Tested to 1000A)
Battery Series	12s(36V)-22s(93V)	12s(36V)-26s(110V)	12s(36V)-32s(135V)
Power	76kW		
MOSFET	30x high-performance MOSFETs		
Performance Enhancement vs. Gen1	Thermal Dissipation Capacity: ↑ 28.2% Temperature Rise Reduction: ↓ 18% Overcurrent Capability: ↑ 25%		
Seismic Performance	High-resilience silicone potting process that can meet ISO vibration testing		
Operating Temp	-30 to 80°C		
Waterproof Rating	IP67+		
Heat Sink Structure	New CNC heat sink, with thickened heat sink options available		
Features	<ul style="list-style-type: none"> ● Safety-Isolated Power Architecture - 1500V reinforced insulation between battery/throttle interface. ● Connect the BMS via Bluetooth - Real-time SOC/temperature monitoring and dynamic power limiting. ● Robust I/O Circuit Protection - Capable of withstanding prolonged high-voltage surges and short-circuit anomalies. ● High-Performance Throttle Sensing - 1000 Sa/s sampling rate and 0.0034V resolution. ● Compatible with 13 different types of bikes, 68 different types of batteries and 34 different types of motors. ● Plug & Play System - Complete wiring harness and mounting kit. Intuitive graphical App with one-touch auto-configuration. ● Built-in IMU - Future updates will unlock advanced features including wheelie assist, anti-roll-over support, cornering G-force tracking, and high-precision electronic tip-over protection. 		
Warranty	2 years. Replacement-only policy for MOSFET failure		

**"FROM RIDERS' PERSPECTIVE,
WE KNOW WHAT YOU WANT."**



Founded by riders and engineered by gearheads. We understand the riders' core desire for ultimate control over their bikes - that's why we are obsessed with every millivolt of the throttle response. We achieve this with a lightning-fast 10005a/s refresh rate and micro-precise 0.0034V resolution. With customizable power curves, from startup to torque explosion, you can freely define your own unique power output. The motor control algorithm supports both speed and torque modes. Every twist of the throttle is a precise burst of power. You will be amazed with how smooth and powerful this controller can be.

Highly Compatible & Flexible

A quick 10-minute installation with plug-and-play connectivity - simply use your bike's original wiring harness with no wire cutting required. Powered by our proprietary high-precision motor-matching algorithm, it's seamlessly compatible with 99% of motors on the market, and it supports:

- 34 different types of motors
 - 13 different types of bikes (including Light Bee, Ultra Bee, Talaria X3, 79 Bike Falcon, Rerode R1 E-ride Pro SS 2.0/3.0, and etc.)
 - 68 different types of batteries
- Stay ahead with one-tap OTA firmware upgrades via the app for quick performance enhancements.



**"FROM RIDERS' PERSPECTIVE,
WE KNOW WHAT YOU WANT."**

Ensuring Safety for Every Ride

Smart Battery Management System

- Direct battery data access with real-time monitoring of charge level and temperature
- Dynamically adjusts power, based on battery temperature that preventing potential risks to the rider from sudden shutdown and protecting the battery
- Overtemperature/Overload triggers automatic protection

Advanced Protection Technology

- Triple anti-vibration fastening system
- High-resilience silicone potting encapsulation
- Compliance with ISO vibration testing

High-Voltage Isolation Protection System

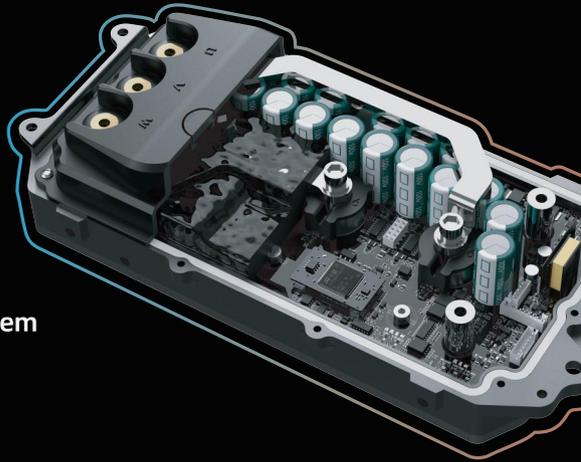
- 1500V fully-isolated power architecture
- Optocoupler-isolated critical signal paths
- High-voltage interference shielding

Redundant Voltage & Current Design

- Ample margin for safety & long-term durability
- Eliminates MOSFET failure risk
- Reliability upgraded. Warranty extended to two years

Automotive-Grade Circuit Design

- 6-layer PCB precision routing
- Complete isolation between high-voltage and low-voltage circuits
- 20% improvement in signal acquisition accuracy



High-Grade Waterproof Structure

- IP67 Rating. Performance is guaranteed even under drastic temperature changes
- Custom O-ring and high-temperature-resistant PC materials are employed to maintain a perfect sealing during prolonged high-temperature exposure

**"FROM RIDERS' PERSPECTIVE,
WE KNOW WHAT YOU WANT."**

Efficient Cooling, Stable Performance

Our innovative thermal architecture combines:

- 30 High-performance MOSFETs | +25% Current Handling
- TOLL Packaging + Low-void Vacuum Solder | +30% Contact Area
- Thickened CNC heat sink + 8W Thermally-conductive Aluminum Substrate + 5W Thermal Grease

Result:

+28.2%

Cooling

-18%

Heat



VEEQR GEN2

“HIGH-RESOLUTION COLOR DISPLAY.”



- **Seamless Unlock**

Automatically unlocks when paired phone is in proximity via Bluetooth, no password needed.

- **Password Access**

Easily set up secure passwords through the control switch.

- **Battery Bind**

Pair with the battery's BMS via Bluetooth to intuitively monitor detailed battery data and status.



"ADAPTIVE DRIVING CONTROL SYSTEM FOR ALL SCENARIOS"

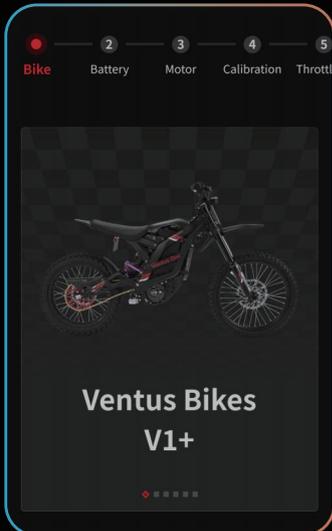


10 options are available in mode library, offering rich customization options. The app comes pre-loaded with 5 user-friendly modes: **EASYGO**, **ECO**, **SPORT**, **RACE**, and **BOOST**.

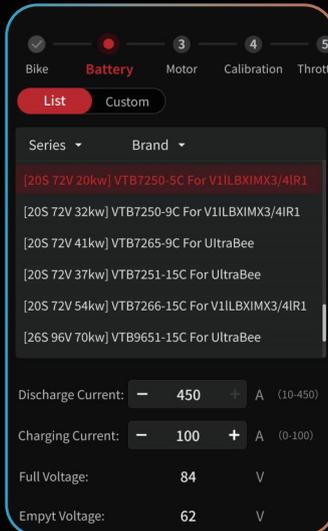


The screenshot displays the app's control interface. On the left, two mode cards are shown: **EASYGO** (selected with a green checkmark) and **ECO**. The **EASYGO** card shows settings: Estimated power 0.6kW (1hp), Speed control 35%, Traction control 380A, Adjustment Coasting Regen 20A, Power Blast -2, High speed Torque compensation 0, and Regen Brake MAX current 250A. A note below states: "Easy-to-use mode, low power, slow acceleration, low top speed, no field weakening, suitable for beginners or children." The **ECO** card shows: Estimated power 0.6kW (1hp), Speed control 50%, Traction control 450A, Adjustment Coasting Regen 0A, Power Blast 0, High speed Torque compensation 0, and Regen Brake MAX current 250A. A note below states: "Moderate power and acceleration, no field weakening, offering better power-saving performance. Suitable for daily battery-saving trips." On the right, a **Throttle curve** graph plots speed (%) from 0 to 100 against rotating handle position from 0% to 100%. A red curve shows a non-linear relationship. Below the graph are mode selection buttons: Linear, Index1, Index2, Logarithm1, and Logarithm2. A note at the bottom right explains: "This is the speed feedback per increment of throttle percentage."

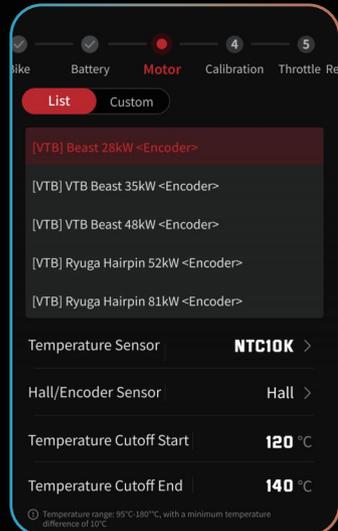
Our extensive database delivers precise bike-battery-motor combinations in just few taps.



The screenshot shows the main menu with five tabs: **Bike**, **Battery**, **Motor**, **Calibration**, and **Throttle**. The **Bike** tab is selected. Below the tabs is a dark image of a motorcycle. At the bottom, the text reads: **Ventus Bikes V1+**.



The screenshot shows the **Battery** selection screen. It has the same five tabs as the main menu, with **Battery** selected. There are **List** and **Custom** buttons. Below are dropdown menus for **Series** and **Brand**. A list of battery options is shown, with the first one highlighted in red: **[20S 72V 20kw] VTB7250-5C For V11LBXIMX3/4IR1**. Other options include: **[20S 72V 32kw] VTB7250-9C For V11LBXIMX3/4IR1**, **[20S 72V 41kw] VTB7265-9C For UltraBee**, **[20S 72V 37kw] VTB7251-15C For UltraBee**, **[20S 72V 54kw] VTB7266-15C For V11LBXIMX3/4IR1**, and **[26S 96V 70kw] VTB9651-15C For UltraBee**. At the bottom, there are four rows of settings with minus and plus buttons: **Discharge Current: 450 A (10-450)**, **Charging Current: 100 A (0-100)**, **Full Voltage: 84 V**, and **Empty Voltage: 62 V**.



The screenshot shows the **Motor** selection screen. It has the same five tabs as the main menu, with **Motor** selected. There are **List** and **Custom** buttons. Below are several motor options, each with a red arrow icon: **[VTB] Beast 28kW <Encoder>**, **[VTB] VTB Beast 35kW <Encoder>**, **[VTB] VTB Beast 48kW <Encoder>**, **[VTB] Ryuga Hairpin 52kW <Encoder>**, and **[VTB] Ryuga Hairpin 81kW <Encoder>**. At the bottom, there are four rows of settings with right-pointing arrows: **Temperature Sensor: NTC10K**, **Hall/Encoder Sensor: Hall**, **Temperature Cutoff Start: 120 °C**, and **Temperature Cutoff End: 140 °C**. A note at the bottom states: "Temperature range: 55°C-180°C, with a minimum temperature difference of 10°C."

"ADAPTIVE DRIVING CONTROL SYSTEM FOR ALL SCENARIOS"



Live Data. Clear Vision. Real-time monitoring of all statuses clearly displayed.

9:41

Real-time status

VTB-FOC-1234 FW:0.0.47(stable) HW:2121SMOGDY-135V760A900A

Normal

Controller Status LIVE MAX MIN

Consumption	0.08 Wh	—	—
ERpm	9999 rpm	99999 rpm	—
Speed	60 km/h	199 km/h	12 km/h
Power	23 kW	44 kW	1 kW
Line Voltage	82.3 V	84.0 V	79.0 V
Line Current	100 A	350 A	-30 A
Motor Current	300 A	960 A	-200 A
Throttle Voltage	0.84 V	4.21 V	0.84 V
Brake Voltage	0.82 V	4.33 V	0.82 V
Controller	25 °C	70 °C	18 °C
Motor	25 °C	120 °C	18 °C

DisCHG 174 A CHG 59 A FULL 84.1V EMPTY 62.3V

GEAR D2 Traction 90 %

MODE BOOST

Speed control	100%	Power Blast	0
Traction control	540A	High speed Torque compensation	0
Adjustment Coasting Regen	0A	Regen Brake MAX current	250A

Controller Status FOC Overheat Motor Overheat

EASYGO

120 km/h

9999 rpm Consumption 0.08 Wh Power 23 kW

Throttle Voltage 0.84 V Brake Voltage 0.82 V

Controller 125 °C

Motor 138 °C Motor Current 300 A Line Voltage 82.3 V Line Current 100 A

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