

HYPERBEE

FEATHERLIGHT ARRIVAL,
RULES REDEFINED

hyper bee 14/12
hyper bee 12/10

5000w

CURB WEIGHT

83.8lbs

Hyper Bee
12/10

ACCELERATION

1.5s 0 ~ 18.6mph

2.4s 0 ~ 24.9mph

3.6s 0 ~ 31mph

All of the above data includes start time.



BOTH AN OFF-ROAD POWERHOUSE AND AN OUTDOOR TOY, THIS CREATION BREAKS THE MOLD AND INSPIRES A NEW RIDING CONCEPT.





*Range and max speed parameters vary by factors like load,temperature,speed,terrain,etc.The above parameters are measured under conditions with rider weight 75KG,ambient temperature 28-35°C, speed 35-40km/h,dry and flat road.

UNCOMPROMISING DESIGN GIVES RISE TO A NEW BREED OF VEHICLE, ONE THAT'S BOLD BY NATURE AND SHARP BY DESIGN.

After 18 months of relentless development, the Surron R&D design team meticulously refined hundreds of prototypes, perfecting every gram and millimeter, to achieve an incredible weight of just 38kg! "Lightweight excellence in every detail, brilliance in every feature."

10-second battery swaps are a breeze with the innovative coverless battery and 'S-S' lock design. Overflowing with creative inspiration, empowering your limitless riding.

The all-new power system, this setup features high-performance 21700 batteries brimming with energy, MTPA/MTPV controllers, and an integrated magnetic cylinder longitudinal motor. Coupled with a newly designed angular reducer, it ensures swift and direct power transmission. The system strikes a perfect balance between robust power and refined responsiveness, while being safe, reliable, and easy to maintain.

SUSPENSION SYSTEM

Racing-grade off-road suspension system



Rebound adjustment knob



The rear suspension features a fully adjustable air shock with 60mm of travel, allowing for a maximum rear wheel travel of 185mm. This provides riders with the confidence and capability to conquer any terrain.

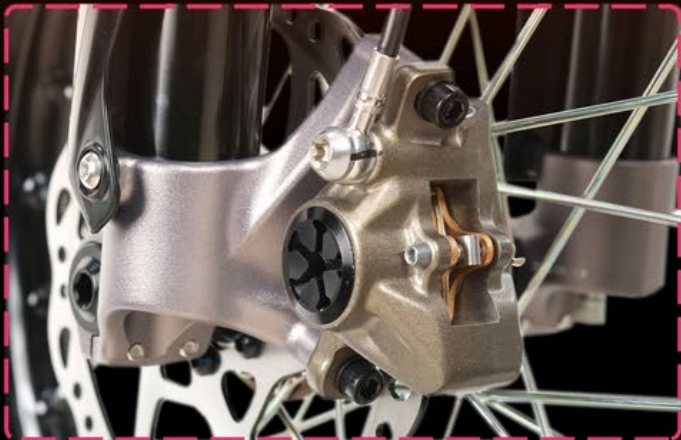
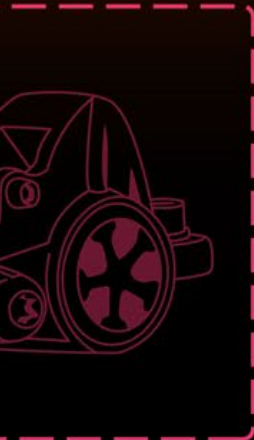
Compression adjustment knob



Featuring advanced 35mm inverted front suspension with an impressive 170mm of travel and easily adjustable rebound and compression damping, these forks adapt to riding style for ultimate control. Innovative low-friction coating on the inner tubes ensures a buttery-smooth performance, elevating ride experience to the next level.



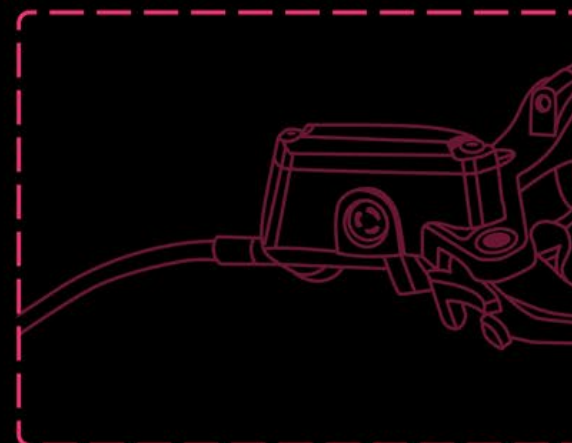
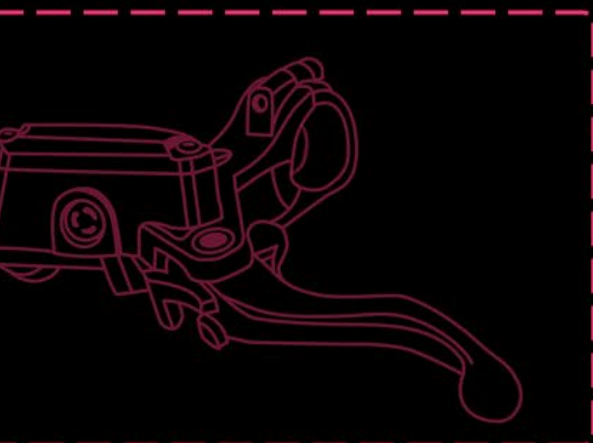
3 rebound adjuster knob



BRAKING SYSTEM

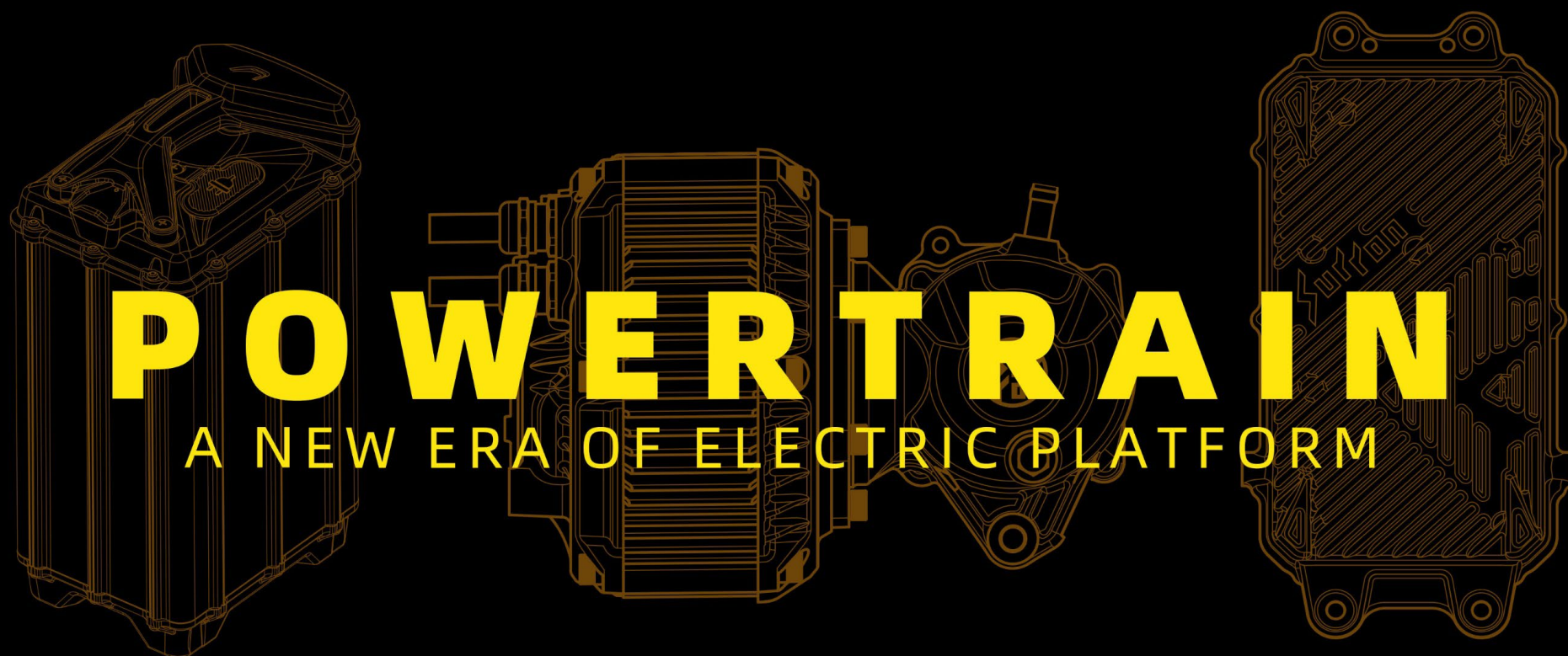
EFFICIENT BRAKING, EFFORTLESS CONTROL

A custom-designed dual-piston hydraulic braking system, featuring 180mm front and 160mm rear discs, delivers superior stopping power. Thicker discs and pads provide increased strength and heat capacity, resulting in reduced brake fade even under demanding riding conditions.



The one-piece forged calipers not only guarantee powerful braking but also provide a smooth and progressive feel, giving riders complete confidence and control on any terrain.

A large piston ratio ensures effortless braking power, even for riders with smaller hands. Both brake levers feature tool-free reach adjustment dials, allowing for personalized lever throw and comfortable operation with either one or two fingers.



This model breaks new ground with its first-of-its-kind, high-performance longitudinally mounted motor paired with a dedicated MTPA/MTPV controller, it delivers blistering acceleration, reaching 30km/h in 1.6 seconds. This translates to riding experience with sharp responsiveness and nimble handling. The 50.4V 25AH high-capacity battery charges from 0 to 100% in just 4.5 hours. The system striking an ideal of balance the all in perfect.

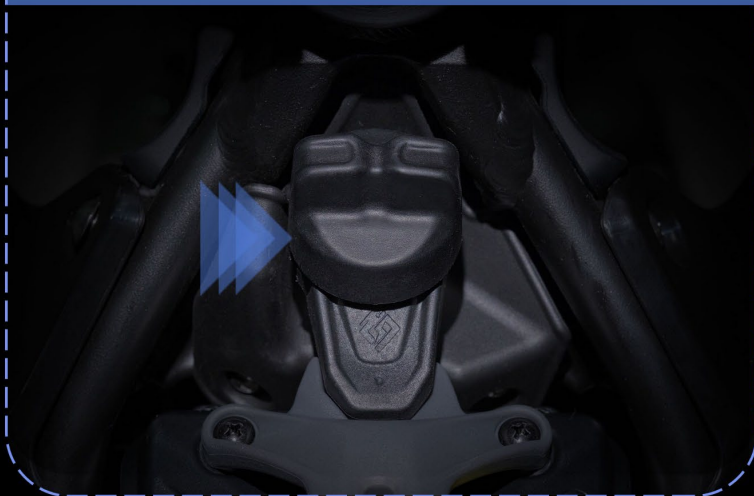
BATTERY SAFETY

UNCOMPROMISING
PERFORMANCE,
UNWAVERING CONFIDENCE

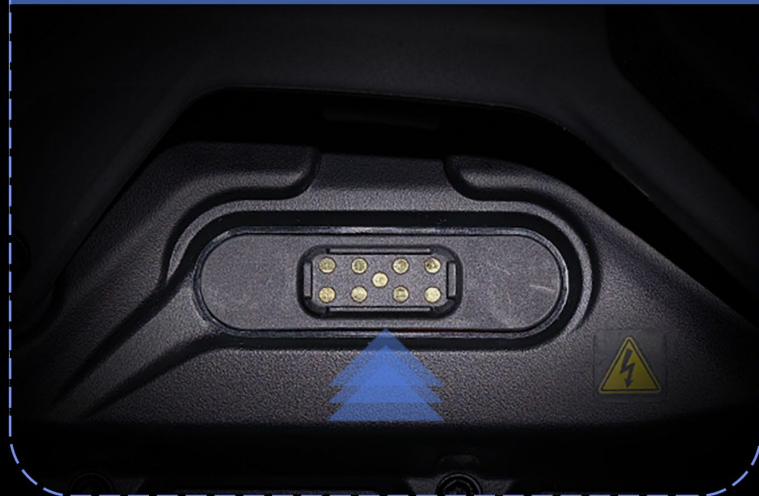


Equipped with an automotive-grade Battery Management System (BMS), this setup offers comprehensive protection logic and outputs strictly according to the power output. The excellent pack structure provides ample cooling space for the cells. Multiple temperature sensors with real-time monitoring ensure optimal performance, and the system boasts high-impact resistance with a waterproof rating of up to IP67. Enjoy uncompromising performance with unwavering confidence.

FLEXIBLE LOCK



MAGNETIC CHARGING PORT



BATTERY INTRODUCTION

50.4V 25AH HIGH-CAPACITY BATTERY PACK

Charge from 0 to 100% in just 4.5 hours with a convenient magnetic connector for easy and fast operation! The entire battery pack is lightweight at just 16.1lbs, featuring a direct power connection between the battery base and vehicle socket. Crafted with high-quality 21700 cells and an all-aluminum alloy shell, it offers multiple safety features for worry-free adventures.



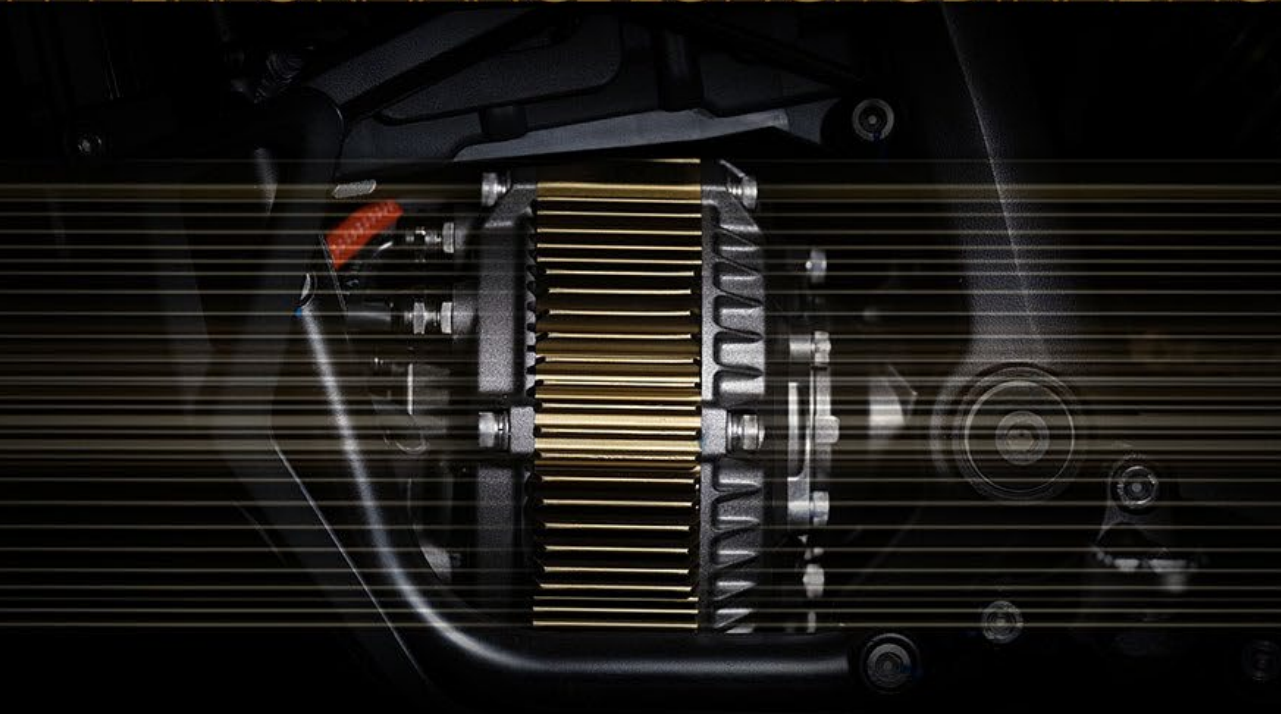
Introducing the Surron Simple("S-S") Lock Quick-Release Battery:
The knob-style compression structure allows for tool-free, single-handed quick installation and removal.

The quick-release battery system with a knob-type compression structure lock has no traditional hatch design and can be easily disassembled with one hand. The battery can be quickly replaced in 10 seconds. The hollow handle on the top of the battery is integrated with the seat cushion shape, revealing the mechanical beauty.

QUICK BATTERY SOCKET



HIGH-PERFORMANCE LONGITUDINAL MOTOR

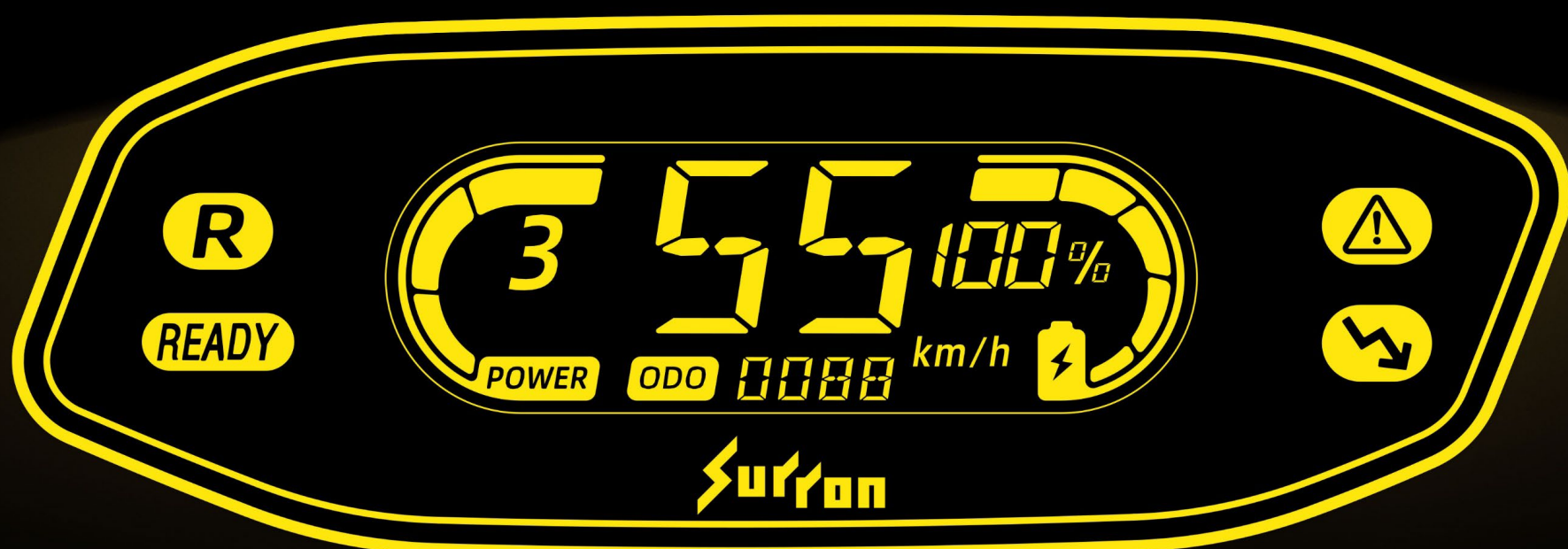


With a maximum power output of up to 5KW, this motor features an embedded magnetic cylinder design that optimizes the use of motor flux weakening control to enhance speed and performance. It can deliver an impressive torque of 159 N.m to the drive wheel, achieving 0-50 km/h acceleration in just 3.6 seconds. The motor significantly increases the heat dissipation area exposed to airflow, effectively reducing operating temperatures with unique longitudinal structure. This ensures reliable performance even in the most challenging conditions, empowering riders to push forward with confidence.

MTPA/MTPV CONTROLLER

Take complete control of your ride with customizable power delivery. Fine-tune the throttle response curve, adjust the kinetic energy recovery level, and select from multiple power output modes. These electronic features cater to a wide range of riding styles and skill levels, ensuring a personalized experience. Same model, different personalities - tailor the ride to match yours.

MULTI-FUNCTION DASHBOARD



Speed, mileage, battery level, power mode, vehicle settings, reverse gear indicator, fault codes, Remote Intercom... This compact display offers comprehensive information at a glance. Despite its small size, it is packed with features to keep you informed and in control.



SAFETY FEATURES

**Multi-layered Protection,
Inside and Out**

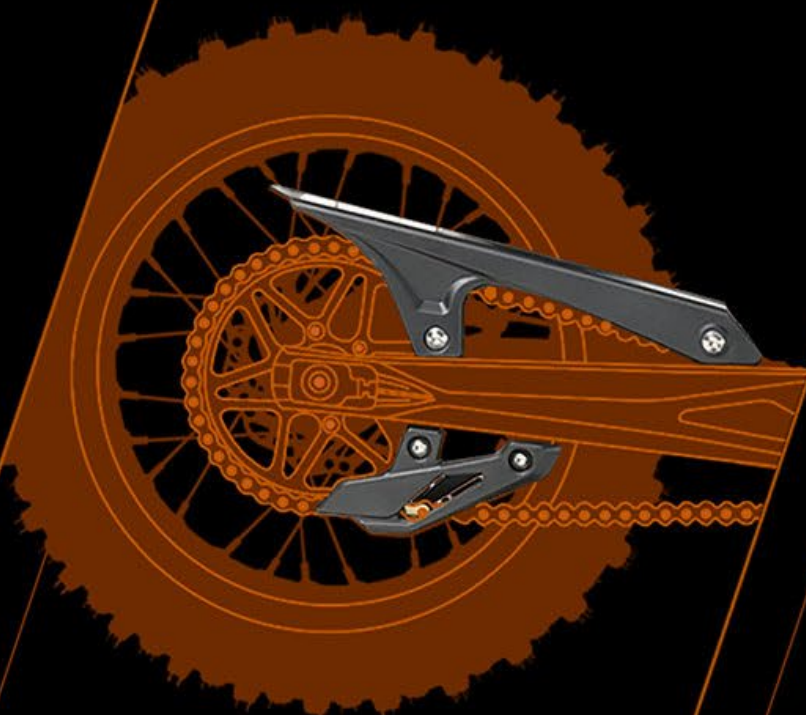


High-spec safety features with dual software and hardware protection: Magnetic emergency switch, Electronic gyroscope tilt power-off protection, Upper and lower chain guards, Full disc design for the drive wheel brake, Handlebar shock-absorbing grips, Body protection pads. These features ensure you enjoy the fun of riding while keeping you thoroughly protected.

The wrist strap magnetic emergency switch is designed to enhance rider safety. In special situations like a fall, if the magnetic switch detaches, the vehicle will immediately cut power to protect the rider. Even if the magnetic switch remains attached, the built-in gyroscope will monitor for any tipping of the vehicle and will cut the power if necessary. These layered safety measures provide extra protection for peace of mind.



The custom-designed 26mm diameter handle grips are both anti-slip and feature a locking function, effectively reducing rider fatigue. Additionally, the end is equipped with a cushioned rubber ring to enhance riding safety.



CHAIN GUARD

The dual upper and lower chain guards at the rear are designed to minimize the risk of other objects getting caught, providing peace of mind while riding.

REAR BRAKE DISC

The rear brake disc features a lightweight design while minimizing spoke gaps, effectively reducing the risk of injury from the spinning brake disc in emergency situations.



Throttle false triggering protection

The throttle active safety feature ensures that if the throttle is not reset when the vehicle is started, no power will be delivered. This prevents unintended acceleration and enhances rider safety.



Safety Start

When the vehicle is ready for riding, you need to click the Ready button. At this point, the dashboard will light up with a green Ready indicator, activating the power output.



Tilt protection

The vehicle is equipped with a built-in tilt sensor. If an accident such as a fall or tilt occurs while riding, the protection mechanism will be triggered, cutting off power output.

ACTIVE SAFETY FUNCTIONS HYPER BEE REMOTE CONTROL

Pioneering vehicle remote control equipped, integrating remote communication, power level adjustment, and emergency power-off functions. With communication distance of 150-300 meters, outdoor exploration communication is seamless. 3 riding modes can be switched freely, with gradual power output for a more comfortable ride (riding modes can also be switched on the vehicle's dashboard). The one-touch emergency power-off button ensures rider safety.



REGEN



EO E1 E2 E3 E4 E5



THROTTLE
SENSITIVITY



F1 F2 F3



HORN VOLUME



G1~GN

CO C1



TILT SWITCH SETTING



T0 T1



REMOTE PAIRING



BLUETOOTH PAIRING

IO I1

UNIT OF SPEED

M1 M2



ADJUSTABLE SEAT HEIGHT

– BUILT TO GROW WITH YOU –



OFF-ROAD WHEEL SET SIZES:
FRONT 14/ REAR 12 INCHES OPTIONAL.



OFF-ROAD WHEEL SET SIZES:
FRONT 12/ REAR 10 INCHES OPTIONAL.

•Thick seat cushion



•Thin seat cushion



There are 2 options available for the cushion thickness, the front fork outer tube installation height is adjustable, and the seat height can be adjusted in 3 dimensions to achieve multi-level adjustments from 630mm to 710mm. **Built to grow with you.**





Parameter

Specifications Hyper Bee 14/12

Dimension	1500 x 680 x 885 mm (Hyper Bee 12/10 : 140 x 680 x 860 mm)
Wheel Base	1035 mm
Seat Height	685 mm (adj. 665 to 705 mm)
Curb Weight	39 kg (Hyper Bee 12/10 : 38kg)
Carrying Capacity	65 kg
Ground Clearance	adj. 240 to 260 mm (Hyper Bee 12/10 : 215 to 235 mm)
Front Fork Travel	240 mm
Rear Shock/Wheel Travel	60 /185 mm
Max. Torque(on wheel)	159 Nm
(Hyper Bee 12/10 : 143 Nm)	

Power System

Power System	PMSM+MTPA/MTPV Controller
Maximum Power(Motor)	5kW
Riding Mode	1 /2 /3 /Reverse R
Assistance Functions	Sliding energy recovery with three-level adjustable levels
Battery Type	50,4V /25Ah Lithium-ion Battery pack
Throttle Curve	Three-stage Adjustable
Primary Belt System	Primary gear drive + second chain drive
Charging Parameter	Portable charger-magnetic charging-fully sealed

Performance

Top Speed	55 km/h
WMTC road	50 km@ 40 km/h
Charge Time(20%-80%)	2.5 h

Frame&Tire

Tires Type	Front-60/100-14 Off-Road (Hyper Bee 12/10 : 60/100-12 Off-Road)
	Rear-70/100-12 Off-Road (Hyper Bee 12/10 : 70/100-10 Off-Road)

Frame Material

Frame Material	Forged aluminium alloy
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Assistant Functions

Remote control function	Intercom function Power mode setting
Safety function	Magnetic emergency switch Remote emergency power off function
Tilt Protection	Gyroscope sensor (Can be turned off in feature setting mode)

Color

	Pink, Green, Yellow, Azure
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