

RFN



RFN.BIKE



■ *Two-in-one crossover*

RFN ARES ELECTRIC DIRT BIKE

Each RFN can easily deal with various road conditions such as rocks, mountain roads, quagmire, etc. All provide speed, precision and confidence to inspire your desire to challenge

We bring together expertise and decades of off-road experience for a 2-stroke engine inject new vitality to create a high-end, extremely light and powerful cross-border electric off-road climbing vehicle, It eliminates the need to reset the carburetor or worry about climate, altitude, race Or go out for a ride, ready to tackle the most extreme terrain on earth.

CONVERTIBLE



FOREST TRAIL OFF-ROAD

CLIMBING ROCK STUNTS

INNOVATIVE CONVERTIBLE SYSTEM

Unlock the lock, and remove the seat, it only takes **3 seconds** for this dual-purpose dirt bike to convert from an off-road vehicle to a climbing bike.



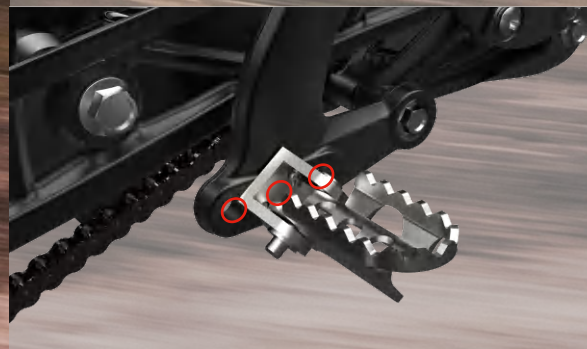


ERGONOMIC DESIGN

Axle load ratio 1:1
Wheelbase ratio 1:1
Drag distance 111 mm

Three-position adjustable pedals

Adjustment range 110 mm



※The shock-absorbing rocker arm after seat height adjustment function is optional

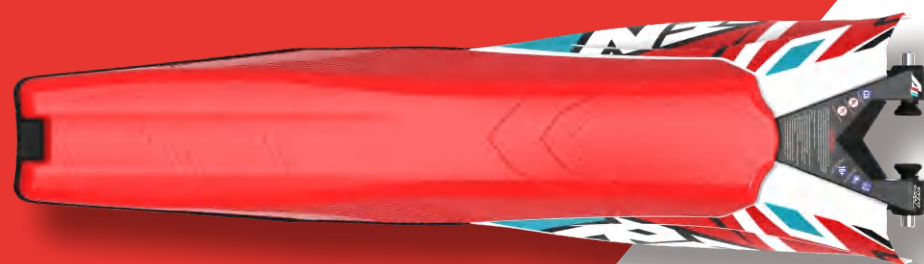


Full protection Design

The waterproof level of the whole vehicle reaches **Ip67**

***PATENTED ONE-PIECE
MULTIFUNCTIONAL
CUSHION***

***5L
STORAGE SPACE***



Powerful POWER OUTPUT



Charger



Strong

Motor Power



Battery



Controller



ORIGINAL

FOUR-DIMENSIONAL CONTROL MODE

The original four-dimensional control mode is adapted to different riding levels and use environments, And can be switched between off-road and climbing at will



ENERGY-SAVING MODE

20% power, driving distance 20KM



STANDARD MODE

0-50KM acceleration in 5 seconds



HIGH-ENERGY MODE

0-50KM acceleration in 4 seconds, automatically reset to standard mode in 9 seconds

R

REVERSE MODE

Speed limit protection
Vehicle speed ≤ 9 km/h

※When the motor is still or continuously reversing, The reversing button is valid. And it is invalid at any other time.

RFN

**CAREFULLY SET
FIRST-LEVEL
TRANSMISSION
STRUCTURE**



Powerful power output

Speed up to 50KM/H in 5 seconds, maximum speed up
To 70KM/H, no-load speed: 2600rpm, standard 420DS chain



BATTERY SYSTEM

MODULAR PACKAGE DESIGN FOR FAST CHARGING

Charging system

Multi-scene charging support

5A/10A Adjustable Voltage
CAN Protocol
Support IPX5

Modular battery system

Safe Reliable

Protection class IP67
BMS security protection
Module
FSS flame retardant system
Smart software version
Battery monitoring system





**SELF-DEVELOPED
FORGED
ALUMINUM
WHEEL**

**LIGHTER, FASTER AND
MORE PRECISE**

**STRAIGHT-PULL SPOKES
REINFORCED 7-SERIES ALUMINUM
WHEELS
LIGHTWEIGHT FRONT AND
REAR DISC BRAKES**





ELECTRONIC HALL THROTTLE





Battery

74V /2480Wh, LG Premium 21700 lithium cells, removable, can be charged in bike or separately.

Brakes

Front and Rear 4-piston hydraulic disc, 210mm

Charging

2-3h with Quickcharge Function

Controller

Sine wave, Best-in-class power density and state-of-the-art motor control algorithms.

Drivetrain

Electric motor

Air cooled Permanent Magnet Synchronous Motor, energy regeneration function, Direct drive, 420 chain with DX

Sprocket

11-58T

Rated power

5 kW

Peak power

12.5 kW**

Max Torque of motor

58N·m

Max Torque of rear wheel

305N·m

Dimensions

Fork angle

24°

Ground clearance

340mm - 13.39"

Offset

15mm in triple clamps, 45mm in forks.

Seat height

860mm - 33.86"

Trail

111mm - 4.37"

Wheel base

1330mm - 52.36"

Fenders & Bodywork

Material

PP/ABS plastic

Frame

Build

6082 aluminum extruded, forged, CNC machined and steel frame.

DETAILS

Front suspension

Upside Down, 200mm travel, Fully adjustable

Handlebar

6061 aluminium, 760mm length

Rear suspension

Mono-Shock, 74mm travel, adjustable

Regulatory

Certificate

CE

Ride modes

Mode 1

Tortoise mode: The ultimate mode energy conservation exploration. Limited to 25 km/h with 3.5hrs battery range.

Mode 2

Rabbit mode: Enduro or active trail riding. 1-2 h riding time.

Mode 3

Rocket mode: Track and race mode, maximal torque and speed, riding time up to 1h.

Mode 4

Reverse mode: Limited to 9 km/h.

Speed & Range

Range

160 Km

(Test data Load: 75 Kg, 20 Km/h uniform speed, ambient temperature: 25 °C, flat pavement, standard tires, standard tire pressure)

Top speed

65km/h

Weight

N.W of Battery

15 kg

N.W of whole bike

68 kg

Max load

120kg

Wheels & Tires

Hubs

Forged and CNC aluminium **RFN** hubs with 20mm axle.

Rims

F 19" / R 18" (Motorcycle standard) re-inforced, triple chamber, 7050 aluminium.

Tires

F: CST CM721 70/100-19 off-road , R: CST CM722 90/100-18 off-road
