

**ELECTRIC
DIRT BIKE**



WWW.RFNBIKE.COM

ZHEJIANG APOLLO SPORTS TECHNOLOGY CO., LTD.

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■ *Two-in-one crossover*

RFN ARES ELECTRIC DIRT BIKE

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

We bring together expertise and decades of off-road experience in 2 and 4 stroke engines to create a new high-end, extremely light and powerful dual purpose electric off-road motorcycle. eliminating the need for old fashioned carburettor tuning or worry about climate or altitude. Ready to race or recreational ride, ready to tackle the most extreme terrain and tracks on earth.

CONVERTIBLE



FOREST TRAIL OFF-ROAD

CLIMBING ROCK STUNTS

INNOVATIVE CONVERTIBLE SYSTEM

Unlock the lock, and remove the seat unit, it only takes **3 seconds** for this dual-purpose dirt bike to convert from an off-road vehicle to trials machine enabling you to reduce the centre of gravity and make the full use of the high ground clearance to tackle obstacles and hill climbs



ERGONOMIC DESIGN

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



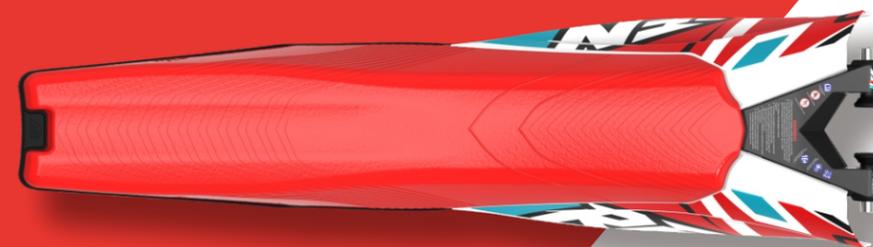
※The shock-absorbing rocker arm after seat height adjustment function is optional



Full Protection Design

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

PATENTED ONE-PIECE MULTIFUNCTIONAL SEAT UNIT



5L
STORAGE SPACE



Powerful POWER OUTPUT



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



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

**WELL-DESIGNED
DIRECT DRIVE
TRANSMISSION
SYSTEM**



Powerful power output

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



RFN
Racing Fears Nothing

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 SENSOR THROTTLE



Battery

74V / 2590Wh, 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

260N·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.

TECHNICAL 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 (variable on optional gear choice)

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



**CARBON FIBER
ULTRA-LIGHTWEIGHT HELMET (BLACK)**

One-piece molding, non-removable
25 vents for heat dissipation while keeping
the helmet lightweight and ventilated



**CARBON FIBER
ULTRA-LIGHTWEIGHT HELMET (WHITE)**



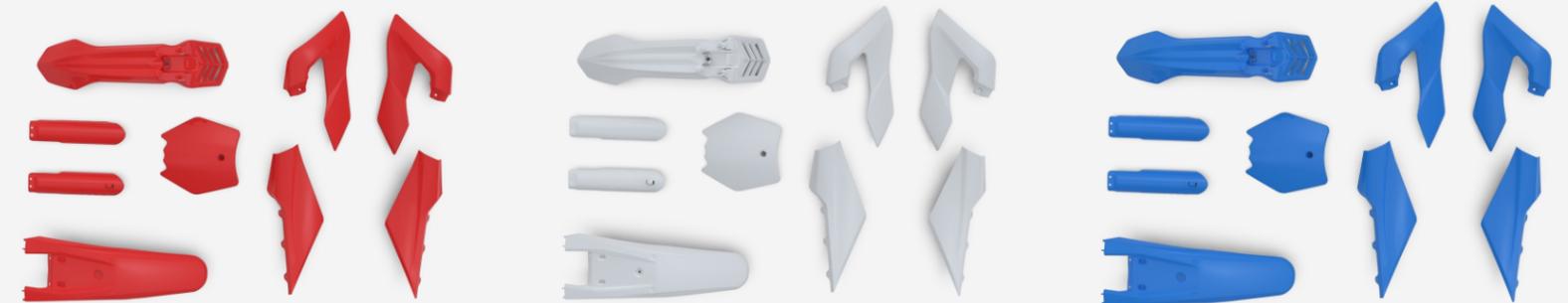
**PERIPHERAL
PRODUCT**



FRONT SPROCKET: 13 T STEEL SPROCKET
Rear sprocket: 53 T Ladle Aluminum Sprocket



FRONT SPROCKET: 13 T STEEL SPROCKET
Rear sprocket: 53 T Steel Sprocket



**ORIGINAL ACCESSORIES WITH RICH COLORS
SUPPORT CUSTOMIZATION**