

Racing Fears Nothing
» www.RFNbike.com

RFN®
RACING

OFF-ROAD ELECTRIC MOTO MENTOR
RFN By Apollo



We are RFN, a motorcycle company with more than 20 years of history;
Since 2003 we have specialized in electric bikes for the
youngest riders and off road adventurers.





I N D E X

KIDS

| 5 |

YOUTHS

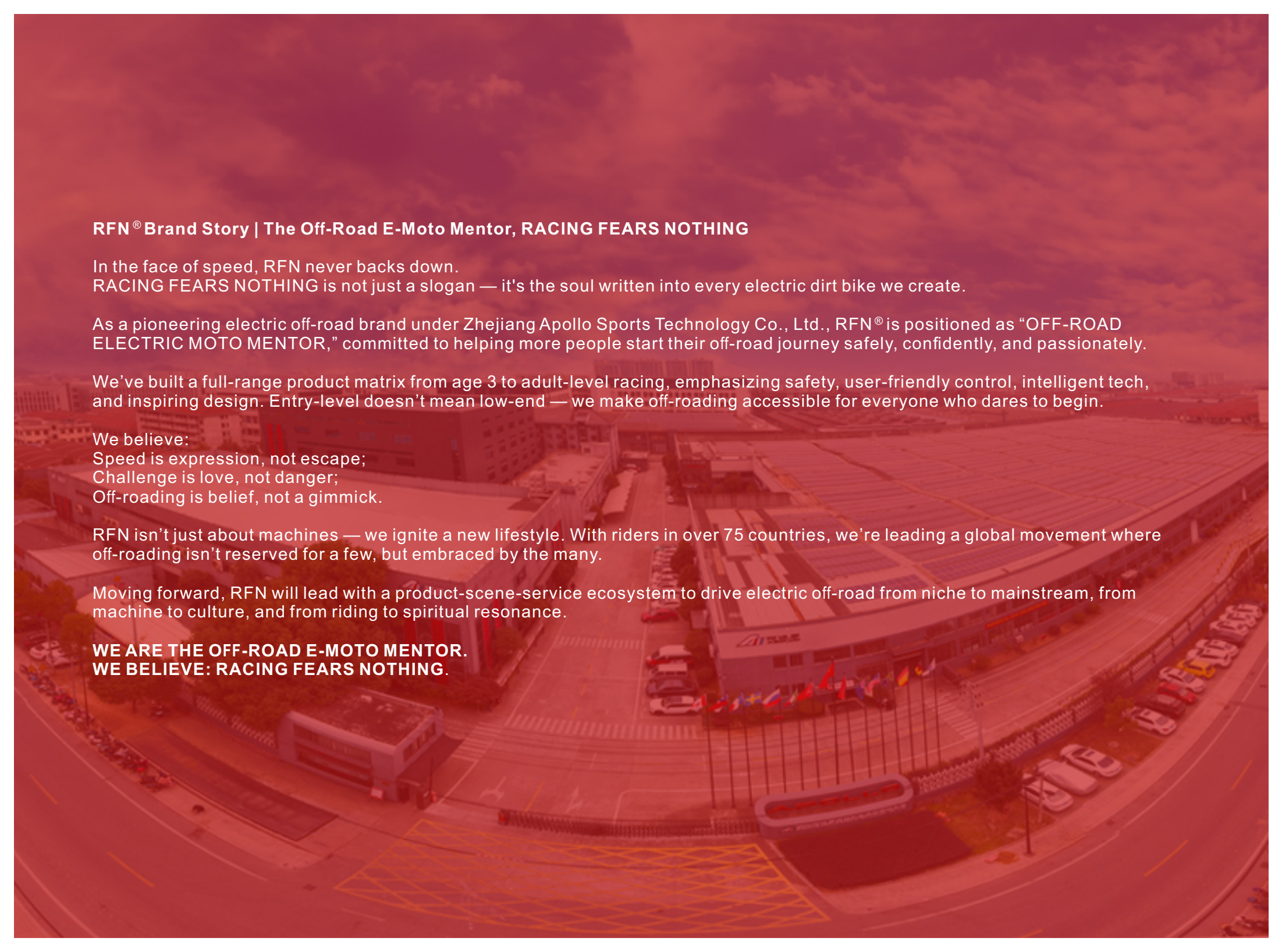
| 11 |

ADULTS

| 17 |

**LIGHT
OFF-ROAD**

| 22 |



RFN® Brand Story | The Off-Road E-Moto Mentor, RACING FEARS NOTHING

In the face of speed, RFN never backs down.
RACING FEARS NOTHING is not just a slogan — it's the soul written into every electric dirt bike we create.

As a pioneering electric off-road brand under Zhejiang Apollo Sports Technology Co., Ltd., RFN® is positioned as “OFF-ROAD ELECTRIC MOTO MENTOR,” committed to helping more people start their off-road journey safely, confidently, and passionately.

We've built a full-range product matrix from age 3 to adult-level racing, emphasizing safety, user-friendly control, intelligent tech, and inspiring design. Entry-level doesn't mean low-end — we make off-roading accessible for everyone who dares to begin.

We believe:
Speed is expression, not escape;
Challenge is love, not danger;
Off-roading is belief, not a gimmick.

RFN isn't just about machines — we ignite a new lifestyle. With riders in over 75 countries, we're leading a global movement where off-roading isn't reserved for a few, but embraced by the many.

Moving forward, RFN will lead with a product-scene-service ecosystem to drive electric off-road from niche to mainstream, from machine to culture, and from riding to spiritual resonance.

**WE ARE THE OFF-ROAD E-MOTO MENTOR.
WE BELIEVE: RACING FEARS NOTHING.**



Factory in China: 60000 M²



ISO 9001 ISO 14001 ISO 45001



In-house R+D Centre



After sales service & spare parts



Designed in our R+D department | Manufactured in our Smart Factory assembly line | Quality control procedures in our test bench
Procedures all-in-one: we design, we built and we test

KIDS

KIDS: ELECTRIC MOTOCROSS

Our KIDS bikes are more than just vehicles—they are companions in every child's journey of growth and adventure. Designed to grow with young riders, our bikes are crafted to inspire confidence, nurture skills, and ignite a lifelong passion for exploration.

Starting with WARRIOR KIDS, our entry-level series for children aged 3 to 6, we focus on safety, simplicity, and fun. These bikes are built to help young riders take their first steps into the world of electric motocross, with lightweight designs, adjustable speed modes, and durable construction that ensures a safe and enjoyable experience.



WARRIOR **KIDS**

RFN[®]

SERIES
ONE

SX-E150



SX-E250



SX-E350



SX-E500



SX- **E150**

WARRIOR KIDS



Seat Height **460mm**

Wheelbase **665mm**

BATTERY CAPACITY

Lithium battery 62.4 Wh

MAX SPEED

13 km/h | 8.1 mph

Second gear speed control device.

SEAT HEIGHT

Standard height (460mm)

Wheel 12"/12"

RANGE

8km(6km/h, Temperature 25 °C, Flat pavement)

Charge 0-100% DC:29.4V **1A@3H**



Rider's height:
90cm-110cm



Long range battery
up to 62.4 Wh



Easy & quick replaceable
battery



Environmentally friendly and quiet,
the future of off-road

SX- **E250**

WARRIOR KIDS



Seat Height **460mm**

Wheelbase **665mm**

BATTERY CAPACITY

Lithium battery **187.2 Wh**

MAX SPEED

25 km/h | 15.9 mph

Three-speed speed control device.

SEAT HEIGHT

Standard height (460mm)

Wheel 12"/12"

RANGE

15km(8km/h, Temperature 25 °C, Flat pavement)

Charge 0-100% DC:42V **2A@3H**



Rider's height:
90cm-110cm



Long range battery
up to 187.2 Wh



Easy & quick replaceable
battery



Environmentally friendly and quiet,
the future of off-road

SX- **E350**

WARRIOR KIDS



BATTERY CAPACITY

Lithium battery **180 Wh**

MAX SPEED

30 km/h | 18.1 mph

Three-speed speed control device.

SEAT HEIGHT

Standard height (490 mm)

Wheel 14"/14"

RANGE

13km(15km/h, Temperature 25 °C, Flat pavement)

Charge 0-100% DC:42V **2A@3H**



Rider's height:
110cm-120cm



Long range battery
up to 180 Wh



Easy & quick replaceable
battery



Environmentally friendly and quiet,
the future of off-road

SX- **E500**

WARRIOR KIDS



BATTERY CAPACITY

Lithium battery **270 Wh**

MAX SPEED

35 km/h | 21.1 mph

Three-speed speed control device.

SEAT HEIGHT

Standard height (490 mm)

Wheel 14"/14"

RANGE

18km(15km/h, Temperature 25 °C, Flat pavement)

Charge 0-100% DC:42V **3A@3H**



Rider's height:
100cm-120cm



Long range battery
up to 270 Wh



Easy & quick replaceable
battery



Environmentally friendly and quiet,
the future of off-road

SPECS COMPARATIVE TABLE

Warrior Kids				
Model Code	SX-E150	SX-E250	SX-E350	SX-E500
Rider Height	90-110cm	90-110cm	100-120cm	100-120cm
Battery	Lithium battery 26.4 Wh	Lithium battery 187.2 Wh	Lithium battery 180 Wh	Lithium battery 270 Wh
Motor	150W	250W	350W	500W
Range	8km	15km	13km	18km
Top speed	13km/h	25km/h	30km/h	35km/h
Seat Height	460mm	460mm	490mm	490mm
Wheelbase	665mm	665mm	685mm	685mm
Front suspension	/	Spring Suspension	Spring Suspension	Spring Suspension
Rear suspension	Spring Suspension	Spring Suspension	Spring Suspension	Spring Suspension
Diameter size	R 140mm	R 140mm	F 140mm / R 140mm	F 160mm / R 140mm
Packing quantity	40HQ:630Pcs	40HQ:630Pcs	40HQ:630Pcs	40HQ:630Pcs



YOUTHS

YOUTHS: ELECTRIC MOTOCROSS

Our YOUTH bikes are engineered to empower young riders as they transition from beginners to confident adventurers. Designed to grow with their skills and ambitions, these bikes combine advanced technology, rugged performance, and safety features to inspire the next generation of motocross enthusiasts.

Starting with WARRIOR YOUTH, our intermediate series for riders aged 6 to 10, we focus on delivering a balance of power, control, and durability. These bikes are built to handle more challenging terrains, offering young riders the thrill of speed and the confidence to explore new limits.

For those ready to take their skills to the next level, the WARRIOR series, designed for riders aged 8 to 12, delivers unmatched performance with powerful motors, advanced suspension systems, and long-lasting batteries. These bikes are perfect for young riders who crave the excitement of competitive motocross or simply want to push their boundaries on the trails.



WARRIOR
YOUTH

SERIES
TWO



110cm-140cm

SX-E2



SX-E5



WARRIOR

SERIES
THREE



140cm-160cm

SX-E8



SX- **E2**

WARRIOR YOUTH



BATTERY CAPACITY

Lithium battery **720 Wh**

MAX SPEED

45 km/h | 27.2 mph

Includes emergency power off switch.

SEAT HEIGHT

Adjustable height (600-690 mm)

Wheel **F 60/100-14", R 80/100-12" (Optional 12"/10")**

RANGE

18km(35km/h, Temperature 25 °C, Flat pavement)

Charge 0-100% DC:54.6V **3A@3.5H**



Rider's height:
90cm-110cm



Long range battery
up to 720 Wh



Easy & quick replaceable
battery



Environmentally friendly and quiet,
the future of off-road

SX- **E5**

WARRIOR YOUTH



Seat Height **615/665mm**

Wheelbase **1032mm**

BATTERY CAPACITY

Lithium battery **1200 Wh**

MAX SPEED

60 km/h | 37.5 mph

Includes emergency power off switch.

SEAT HEIGHT

Adjustable height (615/665 mm)

Wheel F 60/100-12", R 70/100-10"

RANGE

30km(35km/h, Temperature 25 °C, Flat pavement)

Charge 0-100% DC:54.6V **4.5A@6H**



Rider's height:
120cm-140cm



Long range battery
up to 1200 Wh



Easy & quick replaceable
battery



App
available



Environmentally friendly and quiet,
the future of off-road

SX- **E8**

WARRIOR



BATTERY CAPACITY

Lithium battery **2100 Wh**

MAX SPEED

78 km/h | 52.1 mph

Includes emergency power off switch.

SEAT HEIGHT

Standard height (745 mm)

Wheel F 60/100-14", R 80/100-12"

RANGE

60km(25km/h, Temperature 25 °C, Flat pavement)

Charge 0-100% DC:67.2V **14A@3h**



Rider's height:
140cm-160cm



Long range battery
up to 2100 Wh



Easy & quick replaceable
battery



App
available



Environmentally friendly and quiet,
the future of off-road

SPECS COMPARATIVE TABLE

Warrior Youth			Warrior
Model Code	SX-E2	SX-E5	SX-E8
Rider Height	110-140cm	120-140cm	140-160cm
Battery	Lithium battery 720 Wh	Lithium battery 1200 Wh	Lithium battery 2100 Wh
Motor	1kW	2kW	5kW
Range	18km	30km	60km
Top speed	45km/h	60km/h	78 km/h
Seat Height	600-690mm	615/665mm	745mm
Wheelbase	1030mm	1032mm	1145mm
Front suspension	Damping Suspension	Fully Adjustable Forks	Fully Adjustable Forks
Rear suspension	Damping Suspension	Fully Adjustable Shock	Fully Adjustable Shock
Diameter size	F 160mm / R 160mm	F 160mm / R 160mm	F 203mm / R 190mm
Packing quantity	40HQ:296Pcs	40HQ:248Pcs	40HQ:203Pcs



ADULTS

ADULTS: ELECTRIC MOTOCROSS, ROAD

Our adult bikes are built for those who demand the ultimate in performance, innovation, and adrenaline. Designed for riders aged 16 and above, these bikes combine cutting-edge technology, professional-grade components, and unmatched power to redefine what's possible in electric motocross.

Starting with WARRIOR PRO, our advanced series for riders aged 16 and up, we deliver a perfect blend of power, precision, and durability. Featuring the world's first axial flux motor, this bike offers explosive torque, superior handling, and the ability to conquer any terrain with ease.

For the ultimate thrill-seekers, the WARRIOR RACE series is designed for professional riders and enthusiasts aged 16 and above. With a staggering high performance motor and a top speed of 140km/h, this bike is engineered to dominate the track and push the boundaries of electric motocross performance.



SERIES
FOUR



SX-E15



SX-E15Plus



SX-**E15**

WARRIOR PRO



BATTERY CAPACITY

Lithium battery **2960 Wh**

MAX SPEED

90km/h | 55.9mph

Includes emergency power off switch.

SEAT HEIGHT

Standard height (880 mm)

Wheel F 70/100-19", R 90/100-16"

RANGE

80km(25km/h, Temperature 25 °C, Flat pavement)

Charge 0-100% DC:84V **10A@4h**



Rider's height:
160cm+



Long range battery
up to 2960 Wh



Easy & quick replaceable
battery



App
available



Environmentally friendly and quiet,
the future of off-road

SX-**E15 PLUS**

WARRIOR PRO



BATTERY CAPACITY

Lithium battery **2960 Wh**

MAX SPEED

100km/h | 62.1mph

Includes emergency power off switch.

SEAT HEIGHT

Standard height (920 mm)

Wheel F 80/100-21", R 90/100-18"

RANGE

80km(25km/h, Temperature 25 °C, Flat pavement)

Charge 0-100%DC:84V **10A@4h**



Rider's height:
170cm+



Long range battery
up to 2960 Wh



Easy & quick replaceable
battery



App
available



Environmentally friendly and quiet,
the future of off-road

SPECS COMPARATIVE TABLE

Warrior Pro		
Model Code	SX-E15	SX-E15 Plus
Rider Height	160cm+	170cm+
Battery	Lithium battery 2960 Wh	Lithium battery 2960 Wh
Motor	8kW	8kW
Range	80km	80km
Top speed	90km/h	100km/h
Seat Height	880mm	920mm
Wheelbase	1340mm	1340mm
Front suspension	Fully Adjustable Forks	Fully Adjustable Forks
Rear suspension	Fully Adjustable Shock	Fully Adjustable Shock
Diameter size	F 240mm / R 220mm	F 240mm / R 220mm
Packing quantity	40HQ:110Pcs	40HQ:108Pcs



LIGHT OFF-ROAD

ARES: The Perfect Balance of Adventure & Everyday Ride

The RFN ARES series is built for riders seeking the perfect introduction to off-road adventure. Designed for entry-level and intermediate riders, ARES offers a lightweight chassis, agile handling, and a well-balanced powertrain—ensuring confidence and control on every ride.

Blending urban mobility with trail-ready capability, ARES is the ideal choice for exploring winding mountain paths and rugged terrain without being overly aggressive. Its moderate power output strikes the perfect balance between performance and accessibility, making it the go-to electric dirt bike for those who want to experience the thrill of off-road riding without sacrificing everyday usability.

For those who need legal road access, the ARES ROAD edition is fully compliant with regulations, offering a seamless transition between city streets and off-road trails. Meanwhile, the ARES RALLY PRO delivers an upgraded riding experience, featuring an enhanced suspension system, improved chassis stability, and optimized power output—allowing riders to push their limits with even greater confidence.

Whether you're navigating city streets or tackling scenic backcountry trails, the RFN ARES redefines the light off-road category with versatility, control, and uncompromised fun.



SERIES
FIVE



RALLY



RALLY PRO



ENDURANCE



ROAD





BATTERY CAPACITY

Lithium battery **2590 Wh**

MAX SPEED

65km/h | 40.6mph

Includes emergency power off switch.

SEAT HEIGHT

Standard height (860 mm)

Wheel F 70/100-19", R 90/100-18"

RANGE

140km(25km/h, Temperature 25 °C, Flat pavement)

Charge 0-100% DC:84 V **10 A@3h**



Rider's height:
160cm+



Long range battery
up to 2590 Wh



Easy & quick replaceable
battery



App
available



Environmentally friendly and quiet,
the future of off-road

RALLY PRO

ARES



Seat Height **860mm**

Wheelbase **1330mm**

BATTERY CAPACITY

Lithium battery **3132 Wh**

MAX SPEED

78km/h | 48.75mph

Includes emergency power off switch.

SEAT HEIGHT

Standard height (860 mm)

Wheel F 70/100-19", R 90/100-18"

RANGE

140km(25km/h, Temperature 25 °C, Flat pavement)

Charge 0-100% DC:84 V **10 A**@4.5h



Rider's height:
160cm+



Long range battery
up to 3132 Wh



Easy & quick replaceable
battery



App
available



Environmentally friendly and quiet,
the future of off-road

ENDURANCE

ARES



BATTERY CAPACITY

Lithium battery **2590 Wh**

MAX SPEED

45km/h | 28mph

Includes emergency power off switch.

SEAT HEIGHT

Standard height (860 mm)

Wheel F 2.75-19", R 3.0-18"

RANGE

160km(25km/h, Temperature 25 °C, Flat pavement)

Charge 0-100% DC:84 V **10 A**@3h



Rider's height:
160cm+



Long range battery
up to 2590 Wh



Easy & quick replaceable
battery



App
available



Environmentally friendly and quiet,
the future of off-road

ROAD

ARES



BATTERY CAPACITY

Lithium battery **2590 Wh**

MAX SPEED

45km/h | 28mph

Includes emergency power off switch.

SEAT HEIGHT

Standard height (860 mm)

Wheel F 80/90-17", R 100/80-17"

RANGE

160km(25km/h, Temperature 25 °C, Flat pavement)

Charge 0-100% DC:84 V **10 A@3h**



Rider's height:
150cm+



Long range battery
up to 2590 Wh



Easy & quick replaceable
battery



App
available



Environmentally friendly and quiet,
the future of off-road

SPECS COMPARATIVE TABLE

ARES				
Model Code	RALLY	RALLY PRO	ENDURANCE	ROAD
Rider Height	160cm+	160cm+	160cm+	150cm+
Battery	Lithium battery 2590 Wh	Lithium battery 3132 Wh	Lithium battery 2590 Wh	Lithium battery 2590 Wh
Motor	5kW	6.5kW	4kW	4kW
Range	140km	140km	160km	160km
Top speed	65km/h	78km/h	45km/h	45km/h
Seat Height	860mm	860mm	860mm	835mm
Wheelbase	1330mm	1330mm	1330mm	1330mm
Front suspension	Fully Adjustable Forks	Fully Adjustable Forks	Fully Adjustable Forks	Fully Adjustable Forks
Rear suspension	Fully Adjustable Shock	Fully Adjustable Shock	Fully Adjustable Shock	Fully Adjustable Shock
Diameter size	F 210mm / R 210mm	F 210mm / R 210mm	F 210mm / R 210mm	F 210mm / R 210mm
Packing quantity	40HQ:144Pcs	40HQ:144Pcs	40HQ:144Pcs	40HQ:144Pcs



APP

An app designed exclusively for the RFN, for an upgraded experience. Discover some features:

- Full parental Control** for peace of mind (Lock/Unlock Traction).
- Parameter Configuration** (Power, Speed, Throttle Response).
- Motorcycle Status** (Battery, Temperature, etc.).
- Location of the Motorcycle 24/7** (even if Main Battery is removed).
- Datalogging** (Start/End Datalogging using a Chronometre, Lap counter also available).
- Alert Notifications** (Unauthorized movement, Low Battery, Battery removed, etc.).
- Remote Locking** (Disable the motorcycle in case of theft).



www.RFNbike.com     



Facebook



Instagram



Youtube