

# MY22 KTM FREERIDE E-XC

## FEATURES AND BENEFITS

DEALER USE ONLY



READY  
TO RACE



# KTM FREERIDE E-XC

MY2022



## HIGHLIGHTS

### MY22 KTM FREERIDE E-XC



#### HIGHLIGHTS

- » Light, agile chassis paired with torquey electric motor
- » 260 V battery hosts 360 Lithium Ion cells with 1 – 2-hour range
- » State-of-the-art brushless electric motor with 18 kW max output
- » Premium WP XPLOR suspension front and rear
- » Three different ride modes
- » Energy recuperation during coasting and braking
- » CNC-machined triple clamps
- » Innovative steel and aluminum frame
- » Formula brake system with 260 mm front and 220 mm rear discs

**KTM**

# CHASSIS

## MY22 KTM FREERIDE E-XC

### FRAME

The chassis of the KTM FREERIDE E-XC features a very lightweight composite frame design which combines high-quality chrome-molybdenum steel with forged aluminum elements that are bolted together for an innovative approach to saving weight and achieving optimized flex. The frame of the E-model features an open design in the lower section with the motor functioning as a supporting element, additionally assisted by a massive aluminum bash plate. This guarantees optimal stiffness and stability, even in extreme conditions.

### SUBFRAME

The bolt-on subframe is fabricated from high-strength polymer. Featuring exceptional rigidity, it makes a significant contribution towards keeping the overall vehicle weight down. The integrated grip handle is recessed and well protected from mud and dirt thrown up by the rear wheel.



### SWINGARM

The 3.2 kg (7 lbs) cast aluminum swingarm was designed with optimal flexibility in the direction of oscillation with the suspension system and frame. It provides a high torsional rigidity which produces excellent stability. The WP XPLOR PDS shock absorber is mounted directly on the top of the swingarm for reduced weight and increased ground clearance.

# CHASSIS

## MY22 KTM FREERIDE E-XC



### SEAT

The long-shaped, slim seat allows unrestricted freedom of movement and excellent comfort. You can easily gain access to the KTM PowerPack by releasing the seat lock and unlatching the seat. With a seat height of just 910 mm (35.8 in), the rider can easily reach the ground for a confidence-inspiring ride.



### BRAKES

The latest Formula brake system features radially mounted calipers (2-piston front, 1-piston rear) matching perfectly with the 260 mm front and 220 mm rear Wave brake discs. Both master cylinders are mounted at the handlebars – a major advantage for riding right handers.



### BODYWORK

The bodywork of the KTM FREERIDE E-XC is designed to provide practical ergonomics and unrestricted freedom of movement due to the slim seat and spoiler lines and excellent contact points between rider and machine.



### DASHBOARD

The KTM FREERIDE E-XC is fitted with a digital speedometer made by MAE, offering its many features, ease of use and built-in warning and indicator lights. The speedometer cable is well protected in the braided front brake hose tube with an integrated channel for the cable.



# CHASSIS

## MY22 KTM FREERIDE E-XC



### FOOTPEGS

The eccentric mounts of the footpegs may be rotated 180 degrees to allow an offset position of 8 mm to the rear. This can greatly influence the traction and cornering of the motorcycle. The light and broad cast footpegs offer increased contact with the bike for better control.



### HANDLEBAR

The MY22 KTM FREERIDE E-XC features a tapered Neken high-strength aluminum handlebar, which has the same bend and width as the EXC handlebar. It provides optimal ergonomics and control to the rider. ODI grips are mounted, the left side features a comfortable lock-on grip, which does not require any wire or glue to be securely fixed. The right grip is vulcanized to the throttle tube.



### WHEELS

Lightweight wheels with new, high-end anodized aluminum Giant rims, CNC machined hubs and lightweight aluminum spoke nipples are hard to beat in terms of weight, stability and durability.



### COOLING SYSTEM

In order to guarantee constant temperatures, the heat from motor and control unit is dissipated by two laterally mounted radiators. An electrical water pump efficiently circulates the coolant.



# SUSPENSION

## MY22 KTM FREERIDE E-XC

### WP XPLOR FORK

The KTM FREERIDE E-XC is fitted with a WP XPLOR fork, an upside-down fork with a diameter of 43 mm and 250 mm travel. It is a split fork featuring a spring on both sides with separated damping functions for each fork leg. Compression damping is on the left side, while rebound is on the right. The damping can be adjusted easily for compression (left) and rebound (right) via the dials on top of the fork tubes.

The WP XPLOR fork has outstanding response and damping characteristics. Compared to the predecessor fork, it offers better feel and improved bottoming resistance.

### TRIPLE CLAMP

The KTM FREERIDE E-XC features CNC machined triple clamps that are designed to match the long steering head of the frame for a stiffer front end, improving stability.



### WP XPLOR SHOCK

The WP XPLOR shock absorber with PDS technology (travel 260 mm) works perfectly with the WP XPLOR 43 fork. PDS (progressive damping system) is a proven and successful rear suspension design and is a KTM trademark. The progressive damping is achieved by a second damping piston which works together with a closed cup towards the end of the stroke, providing more bottoming resistance. This design contributes to an optimal progression behavior of the damping supported by a progressive shock spring.

The suspension settings can be adjusted in both compression, rebound and high / low-speed compression damping.

To further lower the seat height, a kit is available in the KTM PowerParts catalog to reduce the suspension travel by 25 mm.



# ELECTRONICS

## MY22 KTM FREERIDE E-XC

### DRIVE TRAIN

The brushless electric motor is powered by a 260 volt battery, the KTM PowerPack. It is fitted with 360 cells, providing significant riding time.

An intelligent, state-of-the-art control unit is perfectly set for offroad use and provides instant but also easily controlled power delivery for maximum riding fun, especially on smaller and curvy tracks. No shifting, no clutch, there is no simpler way of riding a motorcycle. With 18 kW peak power and a torque of 42 Nm right from the start, the KTM FREERIDE E-XC can easily compete against combustion engines while taking away nearly all the maintenance and noise.

No compromise in terms of assurance, the KTM FREERIDE E-XC was developed with the highest standards from the automotive industry. Even if water finds its way under the seat, the entire drivetrain and KTM PowerPack will take it with ease due to a sophisticated sealed system.



### POWERPACK

The 260 volt battery holds 360 lithium ion cells (made by Sony) fitted in a robust die-cast aluminum casing. They provide 3.9 kWh, enough for up to two hours of pure riding fun (depending on style and terrain).

The model allows recuperation of deceleration energy during coasting and braking phases, putting power back into the battery for extended range.

The integrated battery management system (BMS) ensures the longevity of the KTM PowerPack. A robust and well-sealed connector on the bottom the KTM PowerPack assures energy flow to the motor.

The KTM PowerPack can easily be exchanged by flipping up the seat and removing four screws – a job of a few seconds – even faster than refueling a bike. Otherwise, the KTM PowerPack can be fully charged remaining in the vehicle (connector is located below the seat) within 110 minutes (or 80% charge in 75 minutes).

Even after 700 charge cycles the KTM PowerPack still provides 70% of its initial capacity.





# ELECTRONICS

## MY22 KTM FREERIDE E-XC



### ELECTRIC MOTOR

The brushless motor features a compact and slim design and due to its dust and waterproof layout, the motor is nearly wear and maintenance free. Just the oil (155 ml) in the gearing between the disc drive and sprocket needs to be changed (every 50 hours).



### CHARGER

The external charger can be connected to any regular 230V socket fused at 10A or 13A and can be easily connected to the KTM PowerPack by flipping up the seat. Charging time is about 105 minutes for a full charge, or about 75 minutes for an 80 % charge.



### CONTROL UNIT

The state-of-the-art control unit is an advanced set of electronics delivering an important contribution toward the responsive yet highly tractable power delivery of the KTM FREERIDE E-XC. It is water cooled in order to ensure reliable function under any conditions.



### DISPLAY

With the multifunctional display located between the steering head and seat, the rider can select 3 different ride modes with different motor characteristics suited for terrain or rider's preference. In addition, the display shows the remaining charge of the battery.

- Mode 1 "Economy" soft 50 km/h
- Mode 2 "Enduro" 16 kW
- Mode 3 "Cross" 18 kW



# TECHNICAL DATA

## MY22 KTM FREERIDE E-XC



KTM FREERIDE E-XC 2022	TECHNICAL DATA
<b>Drive unit</b>	
Electric motor	Permanent Magnet Synchronous Motor in a Disc Armature Design
Rated output	9 kW (12 hp) @ 4,500 rpm
Max. power	18 kW (24.5 hp) @ 5,000 rpm
Torque	42 Nm from 0 rpm
Max. motor speed	7,000 rpm
Transmission	1 gear
Primary drive	1 : 2.4
Final drive	11:48
Cooling system	Liquid cooling
<b>Battery</b>	
Battery	Lithium-ion KTM Power Pack (easily removable)
Rated voltage	260 V
Max. voltage	300 V
Capacity	3,900 Wh
Charging time 100%	105 min
Charging time 80%	75 min
charger line voltage	230V / 50-60Hz
Charging rate	Quick charging 13 A, normal charging 10 A
Charging power	Quick charging 3,000 W, normal charging 2,300 W
Range WMTC (Mode 3)	77km
<b>Chassis</b>	
Frame	Perimeter steel-aluminum composite frame
Subframe	High-strength polyamide/ABS plastic
Handlebars	Neken EXC Aluminum Ø 28/22 mm
Front suspension	WP XPLOR USD fork, Ø 43 mm
Rear suspension	WP XPLOR shock absorber with PDS
Suspension travel front/rear	250/260 mm
Brake front/rear	FORMULA disc brakes Ø 260/220 mm
Wheels front/rear	1.60 x 22"; 1.85 x 18" GIANT RIMS
Tires front/rear	2.75-22" M 7311; 4.00-18" Maxxis TrialMax
Chain	5/8 x 1/4"
Steering head angle	23°
Wheelbase	1418 ±10 mm 55.8 ± 0.4 in
Ground clearance	340 mm / 13.4 in
Seat height	910 mm / 35.8 in
Weight	111 kg / 244.7 lbs



READY



TO

RACE

***KTM***