KS-F22PRO Serial Specification

Product Performance		
Model	KS-F22PRO (Audio version)	KS-F22PRO (Magic Light Version)
Maximum speed	After riding for 5 km, the speed limit warning for pedal lifting is automatically released, and the idling speed is 130+KM/h (factory setting is 18km/h first-level alarm, 19km/second-level alarm, 20km/third-level alarm and rocker)	After riding for 5 km, the speed limit warning for pedal lifting is automatically released, and the idling speed is 130+KM/h (factory setting is 18km/h first-level alarm, 19km/second-level alarm, 20km/third-level alarm and rocker)
Cruise distance	Theoretically about 180km (60KG, 25-30℃ ambient temperature, no wind, 20km/h, flat road)	
Maximum climbing angle	About 45 degrees 84% (60KG, 25-30℃ ambient temperature)	
Battery information	Battery cell: Samsung 50S 168 cells Rated voltage: 155.4 DC V Maximum charging voltage: 176.8 DCV Rated capacity: 3108Wh Battery protection board: With intelligent BMS battery management system such as balancing, overcharge, overcurrent, short circuit protection, abnormal analysis, etc.	
Applicable temperature	-10℃/+45℃	
Maximum load	140Kg	
Protection level	IPX6	
Charger voltage	Input AC 100-240 V, output DC 176.4V, 10A Optional charger with 1000W inverter	
Charging time	10A charging: 3108Wh about 2-3h 20A charging: 3108Wh about 1-2h	
Motor rated output power	5500W	
Motor maximum output power	12000W	
OTA	The mainboard, display board, and battery BMS all support Bluetooth OTA firmware updates. The new OTA architecture makes the upgrade faster and more stable.	
Dimension & Weight		
Vehicle size	540(L)*320(W)*750(H)mm	
Packaging size	585(L)*325(W)*865(H)mm	
Shock absorber specifications	Multifunctional suspension optional, with adjustable rebound compression resistance, adjustable spring preload	
Suspension travel	Frame suspension travel 100mm	
Height and angle of pedal from the ground	245-128 (mm), standard 6-8 degree inclination	
Tyre specifications	2.75-14	
Net weight of vehicle	About 48Kg	About 48Kg
Body interface	GX20-4-pin flange aviation head charging port; power switch; Type-C 20W fast charging, USB-A music playback interface; light sensor port	GX20-4-pin flange aviation head charging port; power switch; Type-C 20W fast charging, USB-A music playback interface; light sensor port
Taillight	Cool columnar red brake light at the rear	Cool columnar horizontal stripe red brake light at the rear + 2 round fantasy lights
Protective Measures		
Lift-up shutdown protection	Double-click the power switch to stop, and the balance will be restored automatically after the machine is straightened.	
Tilt protection	Both sides are 45 degrees (if the angle exceeds 45 degrees, the motor will stop running, and this angle can be adjusted on the APP). After the machine is straightened, the power will be restored without restarting.	
Speed limit protection	Overspeed buzzer alarm or voice broadcast + pedal rocker prompt	Overspeed buzzer alarm + pedal rocker prompt

Low battery protection	Power remaining about 30% to start speed limit protection , linearly decreases according to the alarm setting value. When the remaining power is 5%, the buzzer beeps. When the power is 0%, the front end of the pedal begins to lift and gradually slows down until it stops.	
High temperature protection	80℃ high temperature seesaw for the mainboard, 140℃ high temperature seesaw for the motor, and 60℃ high temperature seesaw for the battery.	
Mainboard waterproof protection	The U-shaped groove between the mainboard seat and the upper cover is connected with a silicone sealing ring, which greatly enhances the waterproof performance and provides a safe waterproof guarantee for the mainboard seat.	
Pedal anti-slip protection	The raised small cylinders are evenly arranged on the pedals according to the force position of the human foot. Compared with the traditional sand paste, it is more effective in preventing slipping and greatly improves the safety performance and riding experience.	
Vehicle reverse parking device	The parking bracket is designed according to the whole vehicle, making parking more convenient.	
Message Notification		
Power on/off	Short press the power button to turn on, long press the power button to turn off	
Battery level	The LED dot matrix screen displays the power level when the device is turned on and not riding	
Speed display	The LED dot matrix screen displays the speed in riding mode	
Hardware Configuration		
Mainboard	Brand-new motherboard architecture, the driver board is designed separately on the aluminum substrate, which has better heat dissipation. 36 brand-new Toll packaged low-resistance MOS provide good power supply for high-power motors. The modular design of the control board and display board provides good support for the entire system.	
Data Bluetooth system	Adopting 5.1 Bluetooth module, it has stronger compatibility and more stable data transmission.	
Lighting, switch, charging port	One-piece modular integrated lighting, switch, and charging port design make maintenance more convenient; 1. Lighting: A set of four 5W high-power lamp beads plus a lamp cup combined into one lighting, Automatically adjust the brightness according to the speed, and adjust the angle separately to provide good lighting at night 2. Switch: Silicone waterproof switch design, integrated power on and off switch design 3. Charging port: Dual charging port design, a single charging port supports 10A high current, and the whole vehicle supports 20A fast charging	
Music system	1. The system comes with Bluetooth music, and you can play music through the mobile phone connected to the vehicle. Bluetooth uses 5.0 technology to provide better sound quality for playing music; 2. Adopt independent stereo sound design, (configured with 20W woofer + 15W tweeter) *2, sound frequency division design, making the bass more powerful and the treble more transparent; 3. You can insert a U disk to play music on USB-A.	None
USB output	One Type-C fast charge + 1 USB-A (you can insert a U disk to play music)	One Type-C fast charger + 1 USB-A
Charging	Provide two charging ports, you can insert two chargers to quickly charge the device	Provides two charging ports, two chargers can be plugged in to quickly charge the device
Colorful lights	The rear handlebar fantasy lights on the car are integrated with the body design, the music spectrum jumps, and various lighting effects such as braking and steering make the whole car cooler.	The two circular fantasy lights at the rear of the car are integrated with the body, and various lighting effects such as brakes and steering make the whole car cooler.
Data Bluetooth system	Adopt 5.1 Bluetooth module, with stronger compatibility and more stable data transmission	
Taillight	Tail RGB light design, red brake light, turn and other lighting effects	
Display	Integrates power, speed, fault code, spectrum display and other information into one 16*16 dot matrix display	
Temperature control system	Real-time monitoring of motherboard, motor and battery temperature, providing good safety protection for users to ride	
Handle	The new front and rear double handles are designed as a whole, and aviation aluminum is formed, which is more textured and strong, making it more convenient to pick up the car, stable and reliable	
Trolley	Independent front and rear U-shaped pull rod design, more portable to use	
Motor	The newly developed high-power 5500W hollow shaft motor provides a strong acceleration feeling for riders	
Battery	Adopt Samsung 50S 21700 5000mA battery cell, and the whole vehicle is designed with two independent batteries. The battery protection board adopts a new BMS battery management system to monitor the safety of the battery cell in real time. The aluminum profile body and battery box are integrated, which is more reasonable and safer to use	

Battery voltage output	XT60E-F output port design, which can continuously output 20A current	
Shock absorption system	Adopt multi-function combined shock absorber , independent compression and rebound adjustable system, creating a new riding experience for users	
Packing Material		
Standard accessories	Charger*1, user manual*1, certificate*1, Pump*1	
Appearance drawing		
Time：20241031		