KS-S16 Electric Unicycle Specifications

Product Inforamtion		
Model	KS-S16	KS-S16 PRO
Max. Speed	It can be decoded and adjusted to 50KM/h, after riding for 5KM. (The idling speed is 70KM/h .Factory alarm settings:18km/h first level alarm, 19km/h second level alarm, 20km/h third level alarm and tilt back).	It can be decoded and adjusted to 60KM/h, after riding for 5KM. (The idling speed is 85KM/h .Factory alarm settings:18km/h first level alarm, 19km/h second level alarm, 20km/h third level alarm and tilt back).
Mileage	Around130km (Condition: load:60KG,temperature:25-30℃,no wind，20km/h,flat road)	Around120km (Condition: load:60KG,temperature:25-30℃,no wind，20km/h,flat road)
Max. Gradeability	Around 40 °（ 84%）(Condition: load:60KG,temperature:25-30℃)	Around 48 °（110%）(Condition: load:60KG,temperature:25-30℃)
Battery Information	Cell ： 80 pcs LG50LT Rated Voltage： DC 72V Top Charing Voltage： DC 84V Rated Capacity： 1480Wh Battery Protection board: Equipped with intelligent BMS battery management system, such as balance, overcharge, overcurrent, short-circuit protection, and abnormal analysis.	Cell ： 80 pcs SAMSUNG 50S Rated Voltage： DC 72V Top Charing Voltage： DC 84V Rated Capacity： 1480Wh Battery Protection board: Equipped with intelligent BMS battery management system, such as balance, overcharge, overcurrent, short-circuit protection, and abnormal analysis.
Temperature	-10℃/+45℃	
Max. Load	120Kg	
Charing Voltage	Input:AC 100- 240 V， Output:DC 84V 、5A	
Charing Time	With 5A charger : 1480Wh about 4-5h (charge time halved with two same chargers)	
Rated Power	2800W	3000W
Peak Power	4500W	5000W
Dimension & Weight		
Dimension	540mm(L) *230mm（W) *620mm（H)	
Package	560mm(L) * 300mm（W) *695mm（H)	
Suspension	China Made suspension ,750 lb spring suspension, mounting hole 195±2mm,Spring Suspension travel distance is 51mm, while the body suspension travel is 88mm)	
Suspension travel	Spring Suspension travel distance is 51mm, while the body suspension travel is 88mm	
Pedal Altitude (from ground)	230-220（mm）,Standard Angle of 6°	
Tire Size	16*3.0inch (off-road tire)	
Net weight	~30KG	
EUC Port	Four-core 12mm aviation head charging port *2；Power switch; Light sensor; 1*USB-A,1*Type-C), output power USB-A output 15W, Type-C output 20W.	
Tailight	Under braking condition, the taillight and the atmosphere light are illuminated simultaneously	
Protective Measures		
Lift Sensor Switch	ouch detection makes the user's handling more sensitive and accurate	
Roll Protection	The Angle of protection is 45 degrees (if it exceeds 45 degrees, the motor will stop running). After righting, the power will be restored without restarting. The App can adjust the protection angle according to the user's usage scenario.	
Speed Limit Protection	Overspeed buzzer alarm or speech broadcast + pedal tilt back	
Low Power Protection	When the remaining power is about 30%, the speed limit protection will be started and linearly decrease according to the alarm setting value. When the remaining power is 5%, the buzzer will give an alarm. When the power is 0%, the front end of the pedal will start to lift and gradually slow down until it stops.	
High Temperature Protection	The euc will tilt back when the motherboard at 80℃ ,and also titl back when the motor is at 140 ℃	

Motherboard Waterproof Protection	The U-shaped slot between the motherboard base and the upper cover is connected with silicone sealing, which greatly enhances the waterproof performance and provides a safe waterproof guarantee for the motherboard base.	
Anti-slip Protection	The pedals are evenly arranged with raised small columns in accordance with the stress position of the sole of the feet, which is more effective than the traditional abrasive paper to protect and prevent slip, and greatly improves the safety performance and riding experience.	
Upside Down Stop Device	According to the design of the euc, the foot support device is added, which can open and close freely, convenient operation, and no longer worry about falling when parking.	
Left and Right Leg Guard Protection	The pads adopts ergonomic design and soft foam self - crust forming, moderate hardness, increase the acceleration and deceleration experience, better protect the body.	
Message		
Power ON/OFF	Short press the power button to turn on EUC. Long press the power button, to drop a sound and power off EUC.	
Battery Level	The LED lattice screen displays the power when the EUC is turn on and no riding.	
Speed Display	LED dot matrix screen displays speed in riding mode	
Audible Reminder	The system is divided into buzzer alarm and horn alarm, which can be switched in the APP, the factory mode horn alarm, and all the horn prompt sound and alarm sound can be customized by the APP	
Hardware Configuration		
Motherboard	The whole board adopts 4 layer board structure design, the whole machine works more stable. 12pcs imported MOS in TO-247 large package provide a strong guarantee for motor. MOS tube is directly fitted on the aluminium alloy main board seat, and the bottom of the aluminium alloy main board seat is directly connected with the body, which can dissipate heat quickly, providing a strong guarantee for fast and stable operation.	
Music System	1. The system comes with Bluetooth music, which can be connected to the EUC through the mobile phone to play music. Bluetooth 5.0 technology provides better sound quality for playing music. 2, The use of independent stereo sound design, (configuration of 10W tweeter +15W bass unit) *2, plus a unique guide hole, make the bass much richer, treble much transparent. 3. Plug USB disk plays music on USB-A.	
USB Output	1* Type-C Fast Charge +1 USB-A (pluggable USB drive to play music)	
Charging	It provides two charging ports that can be plugged into two chargers for quick charging of the device	
RGB Lights	Almost the whole body covered with a total of 148 RGB lights.The light pulsates with the music spectrum, showing a variety of light effects, making the euc more cool.	
Bluetooth	5.1 Bluetooth module, more compatible and more stable data transmission.	
Headlights	One set of left and right lights, a total of 4 pcs 5W lights. The integrated RGB daily lights can adjust the color and the brightness according to the speed automatically. The two lights can be adjusted the angle separately to ensure the good lighting at night.	
Tailight	Integrated rear red brake light and turn signal light.	
Display	32*32 dot matrix display. Power, speed, fault code, spectrum display and other information all in one.	
Temperature Control System	Motherboard, motor, battery temperature real-time monitoring to ensure the good security of users.	
Handle	New front and rear handle design, more convenient, stable and reliable.	
Trolley	New front and rear handle design, more convenient, stable and reliable.	
Motor	High 2800W hollow shaft motor is used to provide a strong sense of acceleration for riders.	High 3000W hollow shaft motor is used to provide a strong sense of acceleration for riders.

Battery	LG21700 5000mA cell, vehicle distribution design of two groups of independent batteries, battery protection board using a new BMS battery management system, real-time monitoring of cell safety, aluminum body and battery box integrated design, more reasonable design, safer use.	SAMSUNG 21700 5000mA cell, vehicle distribution design of two groups of independent batteries, battery protection board using a new BMS battery management system, real-time monitoring of cell safety, aluminum body and battery box integrated design, more reasonable design, safer use.
Suspension System	Unique X-shaped connecting rod damping structure,adopting the unique lever structure of racing class to achieve strong support and soft linear damping experience.	
Pad	Acceleration and deceleration pads, leg pads.	
Package		
Standard parts	1* charger, 1* manual, 1*Certificate of qualification	
Picture	 	
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