



- ★ Headquarters
- Production Base
- ▲ Service Center
- ▲ Service Station
- ★ Under Planning

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**eDrive ALL**  
eBike Systems Catalogue 2024



# About us

Ananda has more than 20 years of experience developing competitive drive system for e-bike. We focus on continuous upgrading of intelligent drive systems and components including mid motor, hub motor, controller, sensor, HMI and etc. Ananda's latest smart platform covers the needs of bike manufacturers and riders.

As an eDrive solution expert, Ananda has been well recognized by customers for its R&D capability and consistent quality. Ananda headquarters is located in Shanghai, and has three main manufacturing facilities in China. Ananda's service capability has extended to East and West Europe via local service centers and online service platform.

Ananda is able to provide a complete edrive system with customizable configurations for brands and manufacturers.

# SYSTEM PROFILE





**eMTB**



# M230 eMTB System



Lighter but stronger - the M230 eMTB drive system. Feather light and extremely compact size make it fits in various situations. With its high precision torque sensor and maximum output torque up to 100Nm, it provides you with mighty experience to conquer wherever the terrain you reach and gives you absolute confidence and passion.



## M230

<b>RATED POWER</b>	<b>250W/350W</b>
<b>MAX TORQUE</b>	<b>80Nm/100Nm</b>
<b>WEIGHT</b>	<b>2.65kg/2.8kg</b>

## D18

<b>DISPLAY TECHNOLOGY</b>	<b>TFT</b>
<b>BLUETOOTH</b>	<b>OPTIONAL</b>



***eTrekking***



# M7000 eTrekking System



The product of the M7000 series is a lightweight, high-performance ebike system suitable for a variety of scenarios. A new structural design and higher precision torque sensor deliver the rider smoother riding feeling and more pleasure in pedaling. JIS and ISIS axle versions are available for Trekking and light off-road conditions.



## M7000

<b>RATED POWER</b>	<b>250W/350W</b>
<b>MAX TORQUE</b>	<b>80Nm/90Nm</b>
<b>WEIGHT</b>	<b>3.35kg</b>



## D16

<b>DISPLAY TECHNOLOGY</b>	<b>TFT</b>
<b>BLUETOOTH</b>	<b>OPTIONAL</b>



***eCargo***





# M6010 eCargo System



We have debugged M6010 system a perfect match with eCargo, and with a new product branch application as Cargo Line. It is so robust yet still smooth. Particularly the walk-assist function is stronger than ever which gives you an easy push start even carrying very heavy loads.

CargoLine



## M6010

**RATED POWER**

**250W/350W/500W**

**MAX TORQUE**

**110Nm/120Nm/130Nm**

**WEIGHT**

**3.5kg/3.9kg**



## DF229

**DISPLAY TECHNOLOGY**

**TFT**

**BLUETOOTH**

**OPTIONAL**



**eCity**



# M81 eCity System



M81 drive system, ideal for mid-level mid-motor e-bikes. This system could be used on both city and trekking bikes. The maximum torque of 100 N.m gives the riders a more powerful support.

## M81

<b>RATED POWER</b>	<b>250W/350W</b>
<b>MAX TORQUE</b>	<b>80Nm/100Nm</b>
<b>WEIGHT</b>	<b>3.0kg/3.15kg</b>

## D20

<b>DISPLAY TECHNOLOGY</b>	<b>LCD</b>
<b>BLUETOOTH</b>	<b>OPTIONAL</b>



***eCity***



# M60 eCity System



## M60

<b>RATED POWER</b>	<b>250W</b>
<b>MAX TORQUE</b>	<b>70Nm</b>
<b>WEIGHT</b>	<b>3.5kg</b>



## D19

<b>DISPLAY TECHNOLOGY</b>	<b>LED</b>
<b>BLUETOOTH</b>	<b>OPTIONAL</b>



Optimized M60 drive system, ideal for urban mid-drive e-bikes. The riding experience is now incredibly quiet and smooth. The maximum torque of 70N.m enables complete hassle-free traveling among the city streets.



***eRoad***



# M107 eRoad System



The M107 series is designed for lightweight eRoad and eGravel bikes. It has the characteristics of compact structure and sensitive response. With the DE226 frame mounted display, the e-bike design is even more integrated. Working with the buttons designed for road handlebar, shifting gears and support levels is never this easy without a look or move your grip positions.



## M107

<b>RATED POWER</b>	<b>250W</b>
<b>MAX TORQUE</b>	<b>40Nm</b>
<b>WEIGHT</b>	<b>2.0KG</b>



## D26





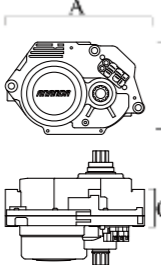
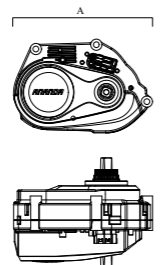
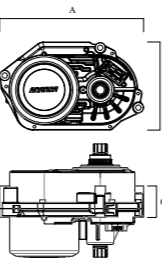

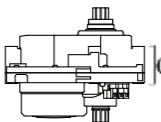
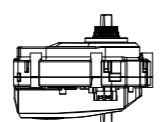
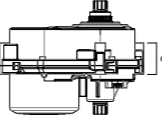
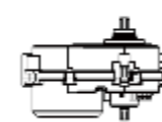
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<b>BLUETOOTH</b>	<b>OPTIONAL</b>

# PRODUCT SPECIFICATION






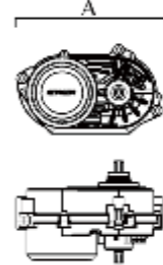
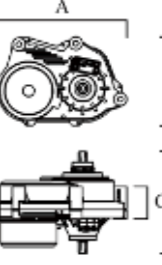
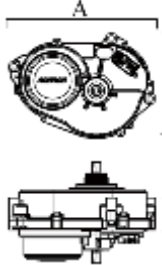
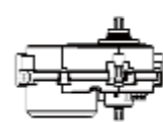
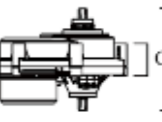
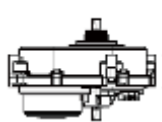


# Mid Motor

Model	M230	M7000	M6100	M6010
				
Position	Mid Motor	Mid Motor	Mid Motor	Mid Motor
Dimensions				
				
Size: A	182.3	197.5	222.5	222.5
Size: B	121.2	133.5	135.2	135.2
Size: C	48.7	49	48.7	48.7
Size: D	150	155	175	155
Weight (kg)	2.65/2.80	3.35	5.3	3.5/3.9
Construction	Gear Drive	Gear Drive	Gear Drive	Gear Drive
Rated Voltage (DC)	36V/48V	36V/48V	48V	36V/48V
Rated Power (W)	250/350	250/350	750	250/350/500
RPM	110/120	105/105	150	110/120
Max Torque (Nm)	80/100	80/90	160	110/120/130
Max Efficiency (%)	≥80%	≥80%	≥80%	≥80%
Coaster Brake	/	●	○	○
Communication	Uart/CAN	Uart/CAN	Uart/CAN	Uart/CAN
Shaft Standard	ISIS	JIS	ISIS	JIS/ISIS
Color	Black	Black	Black	Black
e-Brake	●	●	●	●
Gear Sensor	●	●	●	●
Light Drive Capacity	6V3W / 12V6W	12V6W	12V6W	12V24W
<b>Sensor</b>	Integrated Torque & Cadence Sensor			
<b>Certifications</b>	CE/EN 15194/RoHS/REACH	CE/EN15194/RoHS/REACH	CE/EN15194/UL/RoHS/REACH	CE/EN15194/UL/RoHS/REACH
<b>Waterproof</b>	IPX6			





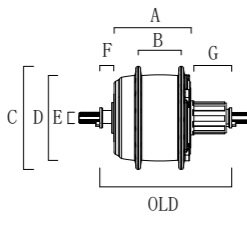
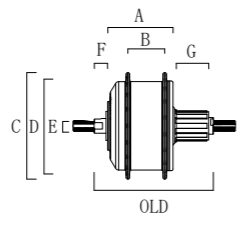
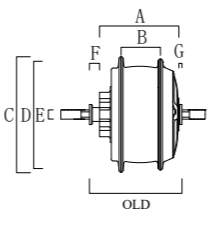
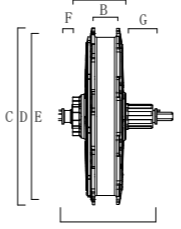
●Yes ○Option / No

# Mid Motor




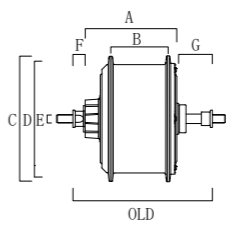
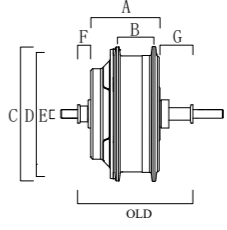
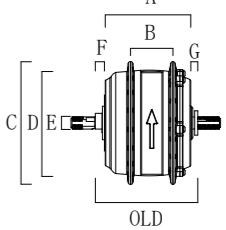
Model	M100	M81	M60
			
Position	Mid Motor	Mid Motor	Mid Motor
Dimensions			
			
Size: A	222.5	200	222.5
Size: B	135.2	135	161.4
Size: C	48.7	49	48.7
Size: D	155	155	155
Weight (kg)	3.5/3.9	3.0/3.15	3.5
Construction	Gear Drive	Gear Drive	Gear Drive
Rated Voltage (DC)	36V/48V	36V/48V	36V/48V
Rated Power (W)	250/350/500	250/350	250
RPM	110/120	105/115	110
Max Torque (Nm)	110/120/130	80/100	70
Max Efficiency (%)	≥80%	≥80%	≥80%
Coaster Brake	○	○	○
Communication	Uart/CAN	Uart/CAN	Uart/CAN
Shaft Standard	JIS/ISIS	JIS	JIS
Color	Black	Black	Black
e-Brake	●	●	●
Gear Sensor	●	●	●
Light Drive Capacity	6V3W / 12V6W / 12V24W	6V3W / 12V6W	6V3W / 12V6W
<b>Sensor</b>	Integrated Torque & Cadence Sensor		
<b>Certifications</b>	CE/EN 15194/RoHS/REACH	CE/EN 15194/RoHS/REACH	CE/EN 15194/RoHS/REACH
<b>Waterproof</b>	IPX6		

●Yes ○Option / No





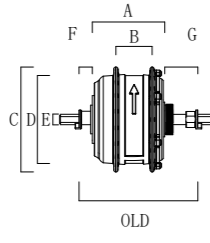
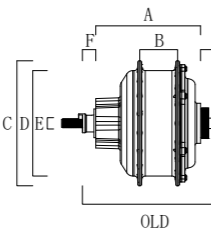
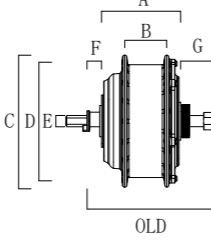
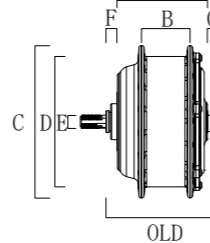
# Hub Motor

Model	M99	M107	M108	M213
				
Position	Rear	Rear	Front	Rear
Dimensions				
Size: A/B/C	82.2/46.3/110	74.4/42/121	86/42.5/125	75.7/34.5/251.5
Size: D/E	99/M12x1-6g	109/M12x1.25-6g	108/M12x1-6g	236.5/M12x1.25-6g
Size: G/H	15.1/40.6	15.3/45.9	10.5/3.3	15.2/40.9
O.L.D	142mm	135mm	100mm	135mm
Construction	Gear Drive	Gear Drive	Gear Drive	Direct Drive
Rated Voltage (DC)	36V/48V	36V/48V	36V/48V	36V/48V
Rated Power (W)	250	250	250	250~500
Max Torque (Nm)	35	40	30	45/60
Max Efficiency (%)	≥80%	≥80%	≥80%	≥80%
Weight(kg)	1.95	2.0	2.0	5.0/5.4
Color	Black	Black	Grey	Black
Noise Grade (dB)	<55	<55	<55	<55
Operation Temperature (°C)	-20~55	-20~55	-20~55	-20~55
<b>Mounting Parameters</b>				
Brake Type	Disc Brake/V Brake	Disc Brake/V Brake	Disc Brake/V Brake/Roller Brake	Disc Brake
Cable Routing	Shaft side, left	Shaft side, left	Through Shaft, Left	Shaft side, left
Cable Length (mm)	250	250	250	250
Spoke Specification	36H/32H*13G	36H*13G	36H*13G	36H*13G
Free Wheel	Cassette 10S	Cassette 11S	/	Cassette 10S
<b>Certifications</b>	CE/RoHS	CE/RoHS	CE/RoHS	CE/RoHS
<b>Waterproof</b>		IPX5		






# Hub Motor

Model	M150	M145	M129
			
Position	Rear	Rear	Front
Dimensions			
Size: A/B/C	126.5/72/158	81/42.7/158	85/42/121
Size: D/E	145/M14x1.5	145/M12x1-6g	110/M12x1.25-6g
Size: G/H	15.3/44.7	15.3/38.5	9/6.9
O.L.D	175mm	135mm	100mm
Construction	Gear Drive	Gear Drive	Gear Drive
Rated Voltage (DC)	36V/48V	36V/48V	36V/48V
Rated Power (W)	250~750	350	250
Max Torque (Nm)	50/80	55	40
Max Efficiency (%)	≥80%	≥80%	≥80%
Weight(kg)	4.0/4.5	3.4	2.3
Color	Black	Black	Black/Silver
Noise Grade (dB)	<55	<55	<55
Operation Temperature (°C)	-20~55	-20~55	-20~55
<b>Mounting Parameters</b>			
Brake Type	Disc Brake	Disc Brake	Disc Brake/V Brake
Cable Routing	Shaft side, Left	Through Shaft, Right	Shaft side, left or Right
Cable Length (mm)	250	250	250
Spoke Specification	3+6Pin Male Connector	3+6Pin Male Connector	3+6Pin Male Connector
Free Wheel	Screw-on 7S	Screw-on 7s/Cassette 10s	/
<b>Certifications</b>	CE/RoHS	CE/RoHS	CE/RoHS
<b>Waterproof</b>		IPX5	

# Hub Motor

Model	M129	M132	M131	M131
				
Position	Rear	Rear	Rear	Front
Dimensions				
Size: A/B/C	82/42/121	120.2/43.5/143.5	82/44.5/139.5	82.8/44.5/139.5
Size: D/E	110/M12x1-6g	130/M12x1.25-6g	126.5/M12x1-6g	126.5/M12x1.25-6g
Size: G/H	15.25/38.15	15.3/39.5	15.25/38.15	10/7.3
O.L.D	137mm	175mm	137mm	100mm
Construction	Gear Drive	Gear Drive	Gear Drive	Gear Drive
Rated Voltage (DC)	36V/48V	36V/48V	36V/48V	36V
Rated Power (W)	250	250W/350W	250/350	250W
Max Torque (Nm)	40	40/50	40/50	40
Max Efficiency (%)	≥80%	80%	≥80%	80%
Weight(kg)	2.4	2.7/2.85	2.45/2.6	2.5
Color	Black/Silver	Black	Black/Silver	Black
Noise Grade (dB)	<55	<55	<55	<55
OperationTemperature (°C)	-20~55	-20~55	-20~55	-20~55
<b>Mounting Parameters</b>				
Brake Type	Disc Brake/V Brake	Disc Brake/V Brake	Disc Brake/V Brake	Disc Brake/V Brake
Cable Routing	Shaft side, left	Shaft side, left	Shaft side, left	Shaft side, left
Cable Length (mm)	250	250	250	250
Spoke Specification	36H*13G	36H*13G	36H*13G	36H*13G
Free Wheel	Screw-on 7S	Screw-on 7S	Screw-on 7S	/
<b>Certifications</b>	CE/RoHS	UL/CE/RoHS	CE/RoHS	UL/CE/RoHS
<b>Waterproof</b>		IPX5		

# Sensor

Model	S15	S10	S11
			
<b>Specification</b>			
Sensor Technology	Torque & Cadence Sensor	Cadence Sensor	Cadence Sensor
Input Voltage (DC)	4.5~5.5V	4.0~5.5V	4.5~5.5V
Key Feature	48 Signals Per Rotation	32/36 Signals Per Rotation	12 Signals Per Rotation
Shaft Standard	JIS	JIS	/
OperationTemperature (°C)	-20~60	-20~60	-20~60
<b>Mounting Parameters</b>			
Position	Bottom Bracket	Bottom Bracket	Bottom Bracket Shaft
BB Width (mm)	68/73/84/100	68/73/84/100	/
<b>Certifications</b>	CE/EN15194/REACH/RoHS	CE/EN15194/REACH/RoHS	CE/EN15194/REACH/RoHS
<b>Waterproof</b>		IP66	
Model	S7	S13	
			
<b>Specification</b>			
Sensor Technology	Speed Sensor	Speed Sensor	
Input Voltage (DC)	3.6~5.5V	3.6~5.5V	
Key Feature	1 Signals Per Rotation	1 Signals Per Rotation	
OperationTemperature (°C)	-20~60	-20~60	
<b>Mounting Parameters</b>			
Position	Chain Stay	Chain Stay&Disc Brake	
<b>Certifications</b>	CE/EN15194/REACH/RoHS	CE/EN15194/REACH/RoHS	
<b>Waterproof</b>		IP66	

● Yes ○ Option / No

# HMI

Model	DF229	D16	D18	D26
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Display Technology	TFT	TFT	TFT	LED
Rated Voltage (DC)	24V/36V/48V	24V/36V/48V	24V/36V/48V	24V/36V/48V
Support Level	5	5	5	5
Communication	UART/CANBUS/BLE	Uart/CAN	Uart/CAN	UART/CANBUS/BLE
Color	Black	Black	Black	Black
<b>Mounting Parameters</b>				
Screen Size (Inch)	3.5 inches	48.5*36.3 (2.4)	31.0*17.6 (1.14)	/
Holder (mm)	∅31.8	∅31.8	∅22.2	/
Cable Length (mm)	230	230	230	230
<b>Indication Information</b>				
Current Speed (km/h)	●	●	●	/
Maximum Speed (km/h)	●	●	●	/
Average Speed (km/h)	●	●	●	/
Single Trip Distance	●	●	●	/
Total Distance	●	●	●	/
Battery Capacity	●	●	●	●
Error Code	●	●	●	●
Walk-assist	●	●	●	○
Backlight	●	●	●	/
Light Sensor	●	●	/	/
<b>Further Specifications</b>				
Bluetooth	●	○	○	○
USB Charge/Communication	/	○	/	/
Remote Control	●	●	/	○
<b>Certifications</b>	CE/EN 15194/RoHS/REACH	CE/EN 15194/RoHS/REACH	CE/EN 15194/RoHS/REACH	CE/EN 15194/RoHS/REACH
<b>Waterproof</b>	IPX6			


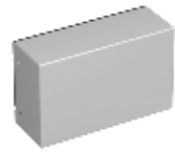

# HMI


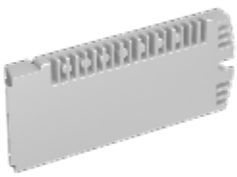
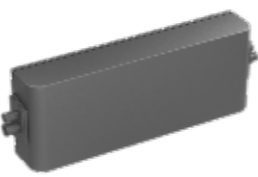
Model	D20	D23	D19	D15
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Display Technology	LCD	LCD	LED	LED
Rated Voltage (DC)	24V/36V/48V	24V/36V/48V	24V/36V/48V	24V/36V/48V
Support Level	5	5	5	1-3/1-5
Communication	Uart/CAN	Uart/CAN	Uart/CAN	Uart/CAN
Color	Black	Black	Black	Black
<b>Mounting Parameters</b>				
Screen Size (Inch)	61.0*45.7 (3)	32.6*31.6 (1.8)	39.6*33.4 (1)	39.5*35.9 (1)
Holder (mm)	∅31.8	∅22.2	∅22.2	∅22.2
Cable Length (mm)	230	230	230	230
<b>Indication Information</b>				
Current Speed (km/h)	●	●	●	/
Maximum Speed (km/h)	●	●	/	/
Average Speed (km/h)	●	●	/	/
Single Trip Distance	●	●	●	/
Total Distance	●	●	●	/
Battery Capacity	●	●	●	●
Error Code	●	●	●	●
Walk-assist	●	●	●	●
Backlight	●	●	/	/
Light Sensor	●	/	/	/
<b>Further Specifications</b>				
Bluetooth	○	○	○	/
USB Charge/Communication	/	/	/	/
Remote Control	●	/	/	/
<b>Certifications</b>	CE/EN 15194/RoHS/REACH	CE/EN 15194/RoHS/REACH	CE/EN 15194/RoHS/REACH	CE/EN 15194/RoHS/REACH
<b>Waterproof</b>	IPX6			

# Controller






Model	B0	B1	B4
			
Rated Voltage (DC)	24V/36V/48V	24V/36V/48V	24V/36V/48V
Low Voltage Protection (DC)	21V/31V/42V	21V/31V/42V	31V
Current Limit (A)	15	15	15
Rated Power (W)	250	250	250
Dimension (mm)	88*49*28	78*48*29	∅28*194
Communication	Uart/CAN	CAN	Uart/CAN
Light Drive Capacity	6V3W / 12V6W	6V3W / 12V6W / 36V5W / 12V24W	6V3W / 12V6W
<b>Certifications</b>	CE/EN 15194/RoHS/REACH	CE/EN 15194/RoHS/REACH	CE/EN 15194/RoHS/REACH
<b>Waterproof</b>	IPX6		

Model	B5	F0	A24
			
Rated Voltage (DC)	24V/36V/48V	24V/36V/48V	36V/48V
Low Voltage Protection (DC)	31V/42V	21V/31V/42V	31V/42V
Current Limit (A)	20	15	30
Rated Power (W)	350	250	500-1000
Dimension (mm)	100*62*31.2	140.4*61.8*16.8	160.6*61.3*29
Communication	Uart/CAN	Uart/CAN	Uart/CAN
Light Drive Capacity	6V3W / 12V6W / 36V5W / 12V24W	6V3W / 12V6W	6V / 3W / 12V6W
<b>Certifications</b>	CE/EN 15194/RoHS/REACH	CE/EN 15194/RoHS/REACH	CE/EN 15194/RoHS/REACH
<b>Waterproof</b>	IPX6		

# Controller

Model	MC5B6	MC5B7	MC5B9
			
Rated Voltage (DC)	24V/36V/48V	36V	36V
Low Voltage Protection (DC)	21V/31V/42V	31V	31V
Current Limit (A)	15A	15A(250W)/18A(350W)	18A
Rated Power (W)	250W	250W/350W	350W
Dimension (mm)	54*45*118	88*49*28	52*52*123
Communication	CAN/UART	CAN/UART	CAN/UART
Light Drive Capacity	6V3W	6V3W/12V6W	6V3W
<b>Certifications</b>	CE/EN15194/REACH/RoHS	CE/EN15194/REACH/RoHS	CE/EN15194/REACH/RoHS
<b>Waterproof</b>	IPX6		

# Battery

Model	BT14	BT17	BT18	BT19	BT20
					
Position	Down Tube	Down Tube	Down Tube	Down Tube	Down Tube
Weight (kg)	3.2	3.2	3.2	3.2	3.4
<b>Specification</b>					
Rated Voltage (DC)	36V	36V	36V	36V	36V
Nominal Capacity (Ah)	11	10.4	14	11	17.5
Energy Content (Wh)	396	374	504	396	630
Communication Protocol	Uart/CAN	Uart/CAN	Uart/CAN	Uart/CAN	Uart/CAN
Smart BMS	●	●	●	●	●
Voltage Scope (V)	31~45	31~45	31~45	31~45	31~45
Continuous Charge Current (A)	3	2	3	2	3
Charging Time	5h	6h	5h	6h	6h
Max Continuous Charge Current (A)	23	18	23	18	15
Storage (at 35% SOC & -10~35°C)	6 Months				
Charging Temperature (°C)	0~45				
Discharging Temperature (°C)	-20~60				
<b>Test &amp; Certifications</b>	IP65/CE/EN15194/REACH/RoHS/UN38.3				

●Yes ○Option / No

# ANANDA LINK

Ananda Link is Ananda smart e-bike service platform. The cloud-based platform well addresses software update, system check and diagnosis for e-bike brands, OEMs, and dealers.

# ANANDA RIDE

Ananda Ride reaches consumer level and provides cyclists with functions of riding data analysis, navigation, system status and usage statistics.

Via a simple Bluetooth connection,your e-bike becomes a part of the smart system and unlocks unlimited connection possibility with cloud-based service,ANT+,IoT devices and more smart features.

