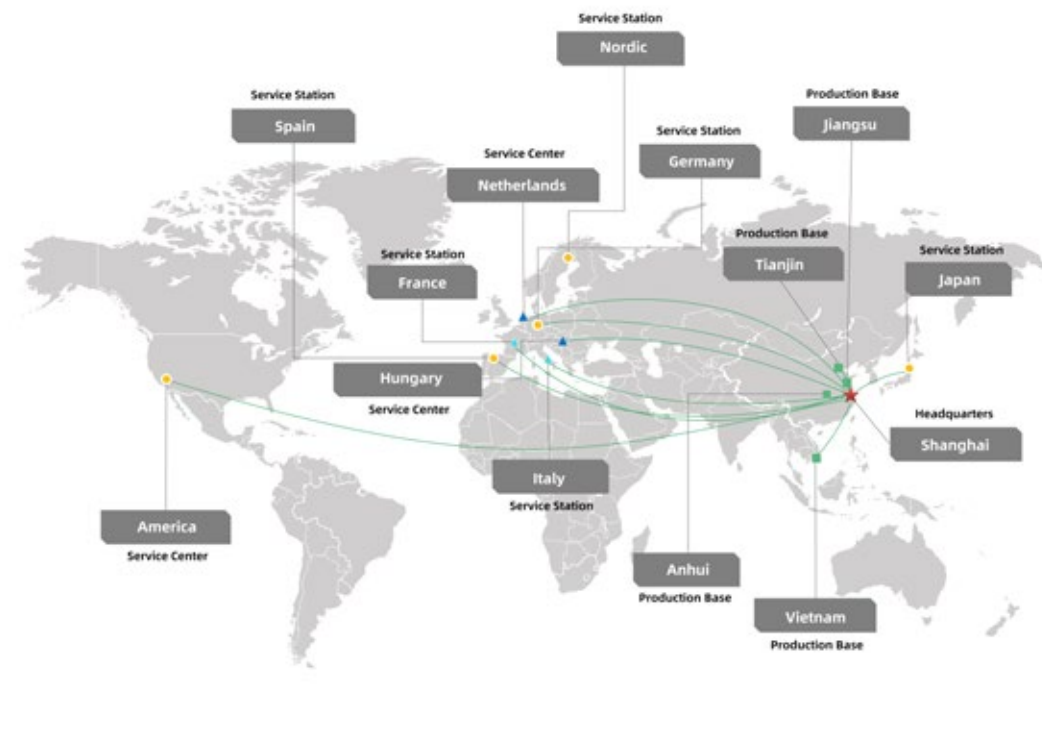


# eDrive Solution Expert



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# 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>80N.m/100N.m</b>
<b>WEIGHT</b>	<b>2.8kg</b>

## D18

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





***eTrekking***





# M4000 eTrekking System



The product of the M4000 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.



## M4000

<b>RATED POWER</b>	<b>250W/350W</b>
<b>MAX TORQUE</b>	<b>80N.m/100N.m</b>
<b>WEIGHT</b>	<b>3.3kg</b>



## D16

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



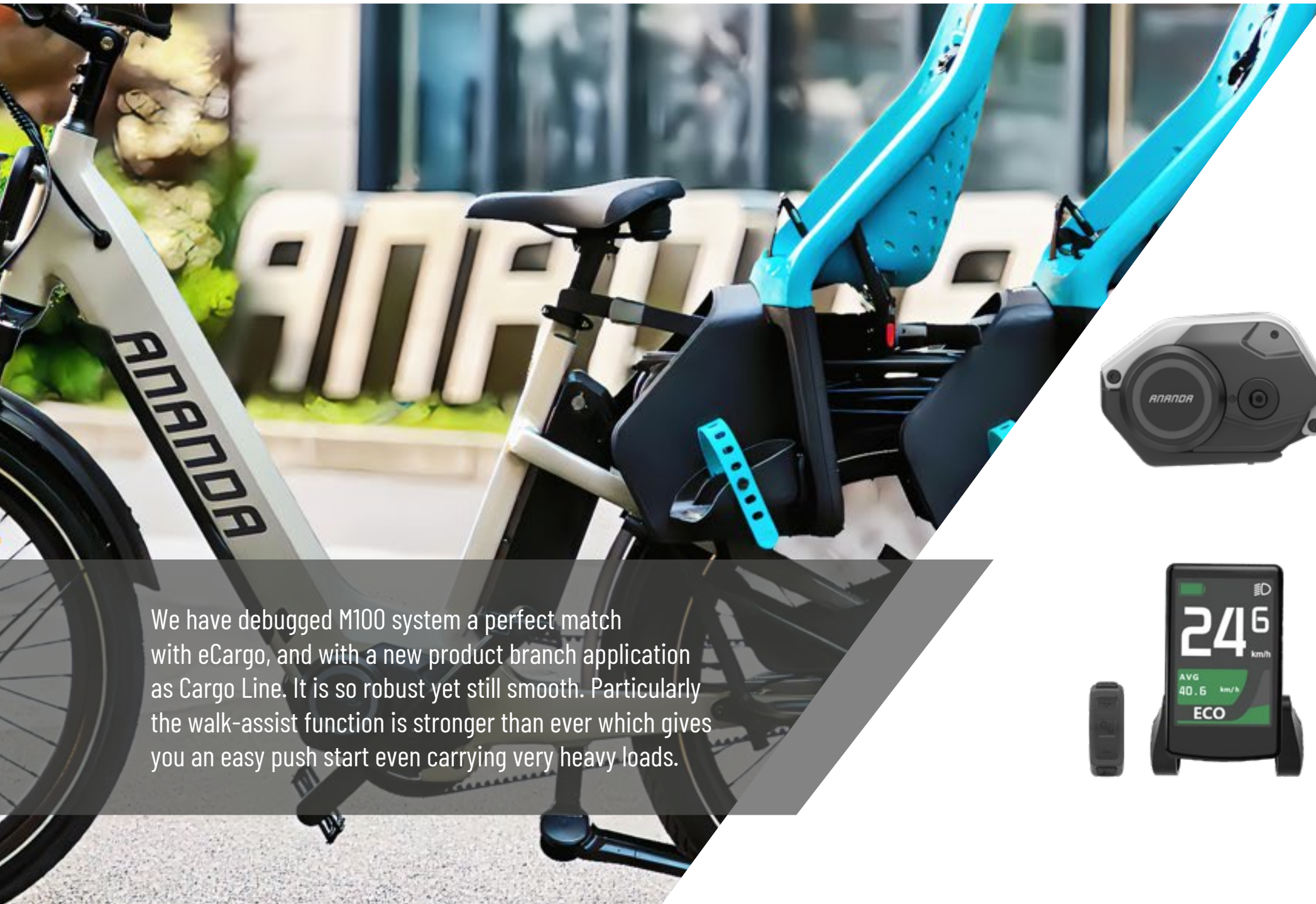


***eCargo***





# M100 eCargo System



We have debugged M100 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.



## M100

<b>RATED POWER</b>	<b>250W/350W/500W</b>
<b>MAX TORQUE</b>	<b>110N.m/120N.m/130N.m</b>
<b>WEIGHT</b>	<b>3.55kg/3.95kg</b>



## DF229

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





**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>80N.m/100N.m</b>
<b>WEIGHT</b>	<b>3.0kg/3.2kg</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>70N.m</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 D26 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>40N.m</b>
<b>WEIGHT</b>	<b>2.0KG</b>



## D26

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





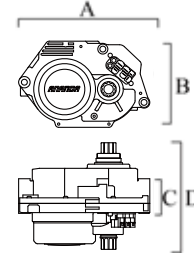
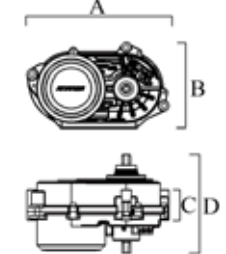
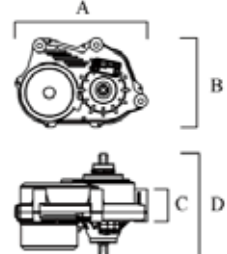
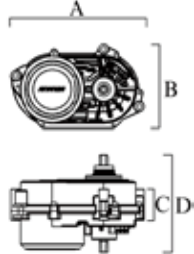


# PRODUCT SPECIFICATION






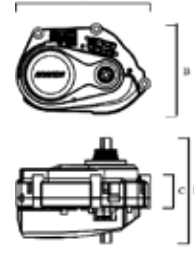
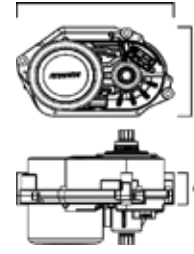
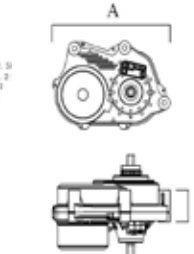


# Mid Motor

Model	M230	M100	M81	M60
				
Position	Mid Motor	Mid Motor	Mid Motor	Mid Motor
Dimensions				
Size: A	182.3	222.5	200	222.5
Size: B	121.2	135.2	135	161.4
Size: C	48.7	48.7	49	48.7
Size: D	150	155	155	155
Weight (kg)	2.80	3.55/3.95	3.0/3.2	3.5
Construction	Gear Drive	Gear Drive	Gear Drive	Gear Drive
Rated Voltage (DC)	36V/48V	36V/48V/52V	36V/48V	36V/48V
Rated Power (W)	250/350	250/350/500	250/350	250
RPM	110/120	110/120/135	105/110/115	110/120
Max Torque (N.m)	80/100	110/120/130	80/100	70
Max Efficiency (%)	≥78%	≥80%	≥80%	≥80%
Coaster Brake	/	/	○	○
Communication	Uart/CAN	Uart/CAN	Uart/CAN	Uart/CAN
Shaft Standard	ISIS	ISIS	JIS	JIS
Color	Black	Black	Black	Black
e-Brake	●	●	●	●
Gear Sensor	●	●	●	●
Light Drive Capacity	6V3W / 12V6W	6V3W/12V6W/12V24W/24V24W	6V3W/12V6W	6V3W / 12V6W
Sensor	Integrated Torque & Cadence Sensor			
Certifications	CE/EN15194/RoHS/REACH	CE/EN15194/RoHS/REACH/UKCA/UL	CE/EN15194/RoHS/REACH/UKCA	CE/EN15194/RoHS/REACH
Waterproof	IPX5			

●Yes ○Option / No





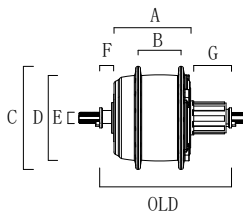
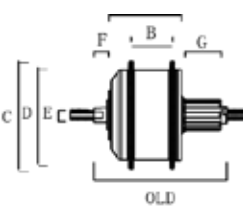
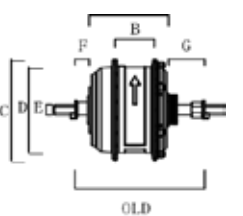
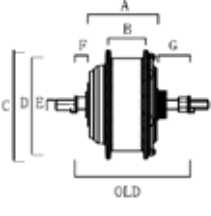
# Mid Motor

Model	M4000	M6100	M1000
			
	<i>Dedicated to North American market</i>		<i>Dedicated to Japanese market</i>
Position	Mid Motor	Mid Motor	Mid Motor
Dimensions			
Size: A	197.5	222.5	200
Size: B	133.5	135.2	135.2
Size: C	49	48.7	49
Size: D	155	175	155
Weight (kg)	3.3	5.3	3
Construction	Gear Drive	Gear Drive	Gear Drive
Rated Voltage (DC)	36V	48V	24V/36V
Rated Power (W)	250/350	750	250
RPM	105	150	105
Max Torque (N.m)	80/100	160	80
Max Efficiency (%)	≥80%	≥80%	≥80%
Coaster Brake	/	/	/
Communication	Uart/CAN	Uart/CAN	Uart/CAN
Shaft Standard	JIS/ISIS	ISIS	JIS
Color	Black	Black	Black
e-Brake	●	●	●
Gear Sensor	●	●	●
Light Drive Capacity	6V3W	12V6W/24V24W	6V3W
Sensor	Integrated Torque & Cadence Sensor		
Waterproof	IPX5	IPX5	IPX6





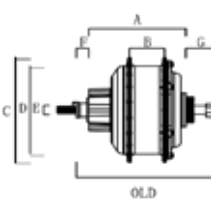
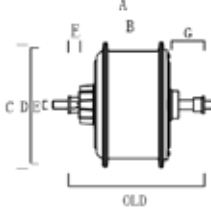
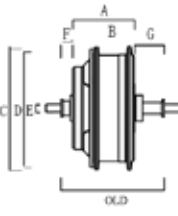
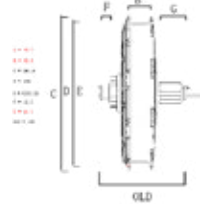
●Yes ○Option / No



# Hub Motor




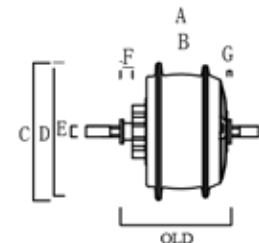
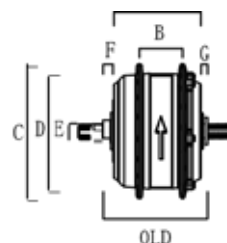
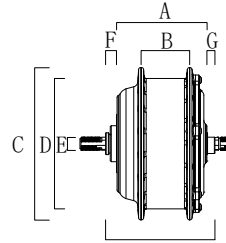
Model	M99	M107	M129	M131
				
Position	Rear	Rear	Rear	Rear
Dimensions				
Size: A/B/C	82.2/46.3/110	74.4/42/121	82/42/121	82.8/44.5/139.5
Size: D/E	99/M12x1-6g	109/M12x1.25-6g	110/M12x1-6g	126.5/M12x1-6g
Size: F/G	15.1/40.6	15.3/45.9	15.25/38.15	15.25/38.15
O.L.D	142mm	135mm	137mm	137/142mm
Construction	Gear Drive	Gear Drive	Gear Drive	Gear Drive
Rated Voltage (DC)	36V	36V	36V/48V	36V/48V
Rated Power (W)	250	250	250	250/350
Max Torque (N.m)	35	40	42	40/50
Max Efficiency (%)	≥80%	≥80%	≥80%	≥80%
Weight(kg)	1.95	2.0	2.4	2.45/2.6
Color	Black	Black	Black/Silver	Black/Silver
Noise Grade (dB)	≤55	≤50	≤50	≤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	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	32H*13G	36H*13G	36H*13G	36H*13G
Free Wheel	Cassette 10S	Cassette 11S	Screw-on 7s	Screw-on 7s/Cassette 10s
<b>Certifications</b>	CE/RoHS/REACH	RoHS/REACH	CE/RoHS/REACH	CE/RoHS/REACH/UKCA/UL
<b>Waterproof</b>	IPX5	IPX5	IPX5	IPX6

# Hub Motor






Model	M132	M150	M145	M213
				
Position	Rear	Rear	Rear	Rear
Dimensions				
Size: A/B/C	120.2/43.5/143.5	126.5/72/158	81/42.7/158	75.7/34.5/251.5
Size: D/E	130/M12x1.25-6g	145/M14X1.5	145/M12X1-6g	236.5/M12x1.25-6g
Size: F/G	15.3/39.5	15.3/44.7	15.3/38.5	15.2/40.9
O.L.D	175mm	175mm	137/142mm	135mm
Construction	Gear Drive	Gear Drive	Gear Drive	Direct Drive
Rated Voltage (DC)	36V/48V	36V/48V	36V/48V	48V
Rated Power (W)	250/350	250~750	350/500	350/500
Max Torque (N.m)	40/50	55/85	55	45/55
Max Efficiency (%)	≥80%	≥80%	≥80%	≥82%
Weight(kg)	2.7/2.85	4.0/4.5	3.4	5.0/5.4
Color	Black	Black	Black	Black
Noise Grade (dB)	≤55	≤65	≤55	≤50
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	Disc Brake/V Brake
Cable Routing	Shaft side, left	Shaft side, left	Through Shaft, Right	Shaft side, left
Cable Length (mm)	250	250	250	250
Spoke Specification	36H*13G	36H*12G	36H*13G	36H*13G
Free Wheel	Screw-on 7S	Screw-on 7s/Cassette 10s	Screw-on 7s/Cassette 10s	Cassette 10s
<b>Certifications</b>	CE/RoHS/REACH	CE/RoHS/UL/REACH	CE/RoHS/REACH	
<b>Waterproof</b>			IPX5	



# Hub Motor

Model	M108	M129	M131
			
Position	Front	Front	Front
Dimensions			
Size: A/B/C	86/42.5/125	85/42/121	82.8/44.5/139.5
Size: D/E	108/M12x1-6g	110/M12x1.25-6g	126.5/M12x1.25-6g
Size: F/G	10.5/3.3	9/6.9	10/7.3
O.L.D	100mm	100mm	100mm
Construction	Gear Drive	Gear Drive	Gear Drive
Rated Voltage (DC)	36V/48V	36V	36V
Rated Power (W)	250	250	250
Max Torque (N.m)	30	42	40
Max Efficiency (%)	≥80%	≥80%	≥76%
Weight(kg)	2.0	2.3	2.5
Color	Grey/Silver	Grey/Silver	Black
Noise Grade (dB)	≤50	≤50	≤55
OperationTemperature (°C)	-20~55	-20~55	-20~55
<b>Mounting Parameters</b>			
Brake Type	Disc Brake/V Brake/Roller Brake	Disc Brake/V Brake	Disc Brake/V Brake
Cable Routing	Through side, left	Shaft side, left or Right	Shaft side, right
Cable Length (mm)	250	250	250
Spoke Specification	36H*13G	36H*13G	36H*13G
Free Wheel	/	/	/
<b>Certifications</b>	CE/RoHS/REACH	CE/RoHS/REACH	UL/CE/RoHS/REACH/UKCA
<b>Waterproof</b>	IPX5	IPX5	IPX6

# Sensor

Model	S15	S10	S11
			
<b>Specification</b>			
Sensor Technology	Torque & Cadence Sensor	Cadence Sensor	Cadence Sensor
Input Voltage (DC)	4.5~5.1V	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)	-20~55	-20~55	-20~55
<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/REACH/ROSH	EN15194/ROSH	REACH/ROSH
<b>Waterproof</b>		IP66	
<hr/>			
Model	S7	S13	
			
<b>Specification</b>			
Sensor Technology	Speed Sensor	Speed Sensor	
Input Voltage (DC)	3.6~5.5V	3.6~5V	
Key Feature	1 Signals Per Rotation	1Signals Per Rotation	
OperationTemperature (°C)	-20~55	-20~55	
<b>Mounting Parameters</b>			
Position	Chain Stay	Chain Stay&Disc Brake	
<b>Certifications</b>	CE	CE	
<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/52V	24V/36V/48V	24V/36V/48V
Support Level	5	5	5	5
Communication	Uart/CAN/BLE	Uart/CAN/BLE	Uart/CAN/BLE	Uart/CAN/BLE
Color	Black	Black	Black	Black
<b>Mounting Parameters</b>				
Screen Size (Inch)	82*53(3.8)	48.5*36.3 (2.4)	25.5*15.5(1.14)	/
Holder (mm)	ø31.8	ø31.8	ø22.2	/
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	○	●	/	/
Remote Control	●	●	/	○
<b>Certifications</b>	REACH	CE/EN 15194/RoHS/REACH/RED	CE/EN 15194/RoHS/REACH/RED	CE/EN 15194/RoHS/REACH
<b>Waterproof</b>		IPX6		

● Yes ○ Option / No

# HMI

Model	D20	D23	D19	D15
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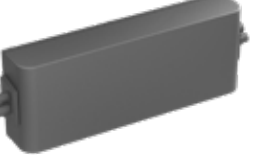
Display Technology	LCD	LCD	LED	LED
Rated Voltage (DC)	24V/36V/48V	24V/36V/48V	24V/36V/48V	24V/36V/48V
Support Level	5	5	5	1-3/1-5
Communication	Uart/CAN/BLE	Uart/CAN/BLE	Uart/CAN/BLE	Uart/CAN
Color	Black	Black	Black	Black
<b>Mounting Parameters</b>				
Screen Size (Inch)	61*45.7 (3)	32.6*31.6 (1.8)	39.6*33.4 (1.7)	39.5*35.9 (1.7)
Holder (mm)	ø31.8	ø22.2	ø22.2	ø22.2
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	○	/	/	/
Remote Control	●	/	/	/
<b>Certifications</b>	CE/EN 15194/RoHS/REACH	CE/EN 15194/RoHS/REACH	CE/EN 15194/RoHS/REACH/RED/UKCA	CE/EN 15194/RoHS/REACH
<b>Waterproof</b>	IPX6	IPX6	IPX6	IPX5

● Yes ○ Option / No






# Controller






Model	B0	B1	B4
			
Rated Voltage (DC)	24V/36V	36V	36V
Low Voltage Protection (DC)	21V/31V	31V	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	CAN
Light Drive Capacity	6V3W / 12V6W	6V3W	6V3W
<b>Certifications</b>	CE/EN 15194/RoHS/REACH	CE/RoHS/REACH	
<b>Waterproof</b>		IPX6	

Model	B5	F0	A24
			
Rated Voltage (DC)	36V/48V	36V/48V	48V/52V
Low Voltage Protection (DC)	31V/42V	31V/42V	40V/46V
Current Limit (A)	18/20	15/18	30
Rated Power (W)	350/500	250/350	500/750
Dimension (mm)	100*62*31.2	140.4*61.8*16.8	161*62*40
Communication	Uart/CAN	Uart/CAN	Uart/CAN
Light Drive Capacity	6V3W/12V6W/24V24W/12V24W	6V3W / 12V6W	6V3W/24V24W/12V24W
<b>Certifications</b>		EN 15194	UL
<b>Waterproof</b>	IPX6	IPX6	IPX5

# Controller

Model	B6	B7	B9
			
Rated Voltage (DC)	36V	24V/36V	36V
Low Voltage Protection (DC)	31V	21V/31V	31V
Current Limit (A)	15	15/18	15/18
Rated Power (W)	250	250/350	250/350
Dimension (mm)	54*45*118	88*49*28	52*52*123
Communication	CAN/UART	CAN/UART	CAN/UART
Light Drive Capacity	6V3W	6V3W/12V6W/36V5W	6V3W/12V6W
<b>Certifications</b>		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.

