



For Health ,For Low Carbon Life



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**NEWAYS**  
WE ARE COMING....

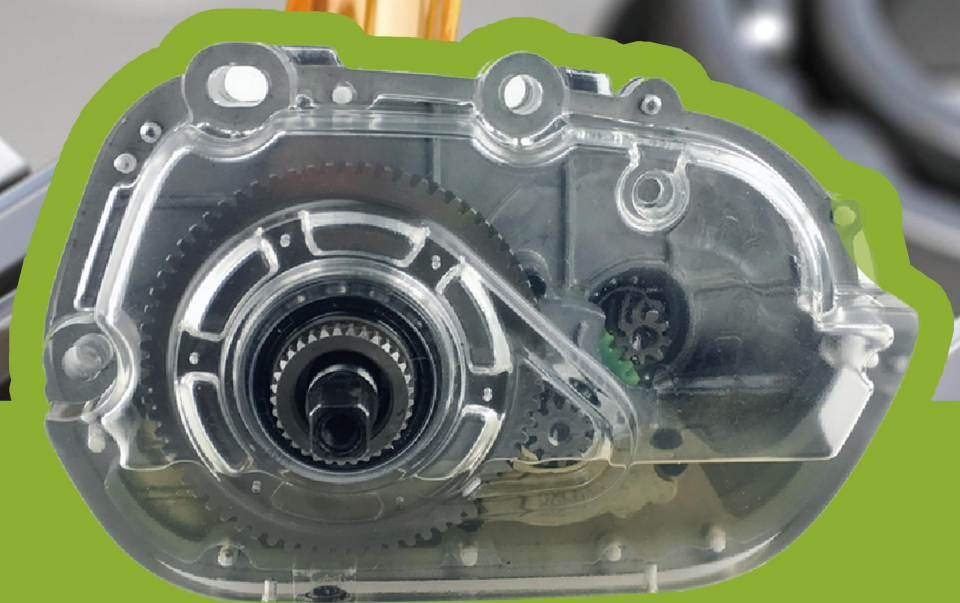


When you first heard about "NEWAYS", it might be only one word. However it will become a new attitude to life from now on. Based on the core technology, international advanced management, manufacturing and service platform, Neways set up a full chain, from product R&D, manufacture, sales, installation, maintenance.

We not only provide the electrical system of the e-bike motors, displays, sensors, controllers, batteries, but also family generator, dust cleaner, humidifier and other household appliances.

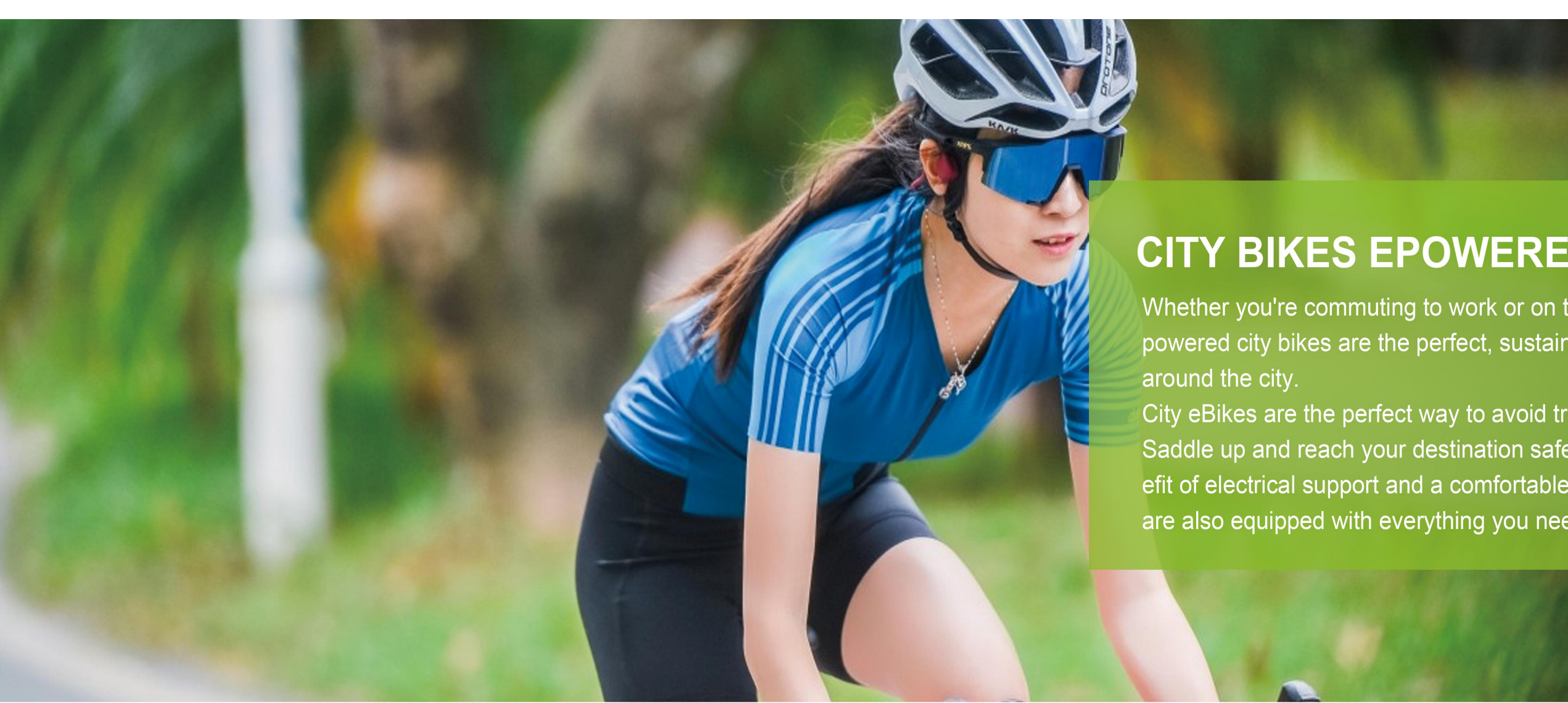
What we advocate is environmental protection, living life in a positive manner. By using e-bikes, people can change their philosophy attitude towards life and find more fun.

We will lead you to a green life! Welcome to join us!



E-Bike will lead the bicycle development trend in the future, reduce the burden of riders, improve the fun of cycling. Mid-motor is the most popular in the current market and also the best solution for e-bike.

In 2013, we designed and developed the first generation of mid-motors and completed the test of 100,000 kilometers in 2014, and put it on the market at the same time. In 2017, the oil-containing mid motor was born, with low noise, good sealing and good heat dissipation. In order to match this motor upgrade, the company developed a new generation of controller. Meanwhile, the torque sensor has been tested 100,000 times three years and put it on the market in 2017. In 2019, we completed the 200,000 kilometers test of the mid-motor, and successfully put it on the market for use.



## CITY BIKES EPOWERED BY NEWAYS

Whether you're commuting to work or on the way to a café, electrically powered city bikes are the perfect, sustainable and stress-free way to get around the city.

City eBikes are the perfect way to avoid traffic jams in a congested city. Saddle up and reach your destination safely and stress-free with the benefit of electrical support and a comfortable seating position. City e-bikes are also equipped with everything you need for cycling in the city.



Motor:NM500  
 Power:500W  
 Max Torque:  $\geq 130N.m$   
 Display :ND04  
 Screen:B&W  
 Controller :Integrated  
 Torque Sensor :NT01(Optional)  
 Oil Type :GL-6  
 IP66



Motor:NM350  
 Power:350W  
 Max Torque:  $\geq 110N.m$   
 Display :ND02  
 Screen:B&W  
 Controller :Integrated  
 Torque Sensor :NT01(Optional)  
 Oil Type :GL-6  
 IP66



Motor:NM250  
 Power:250W  
 Max Torque:  $\geq 80N.m$   
 Display :ND03  
 Screen: Color  
 Controller :Integrated  
 Torque Sensor :NT01(Optional)





## MT BIKES EPOWERED BY NEWAYS

Outdoor exercise and sporting are a part of our lives, and there is no substitute for the joy of riding the reliable Ebike to get off the ground. We match people up to the perfect e-bike to embody the attitude of pursuing life.



Motor :NR250  
 Power :250W  
 Max Torque :  $\geq 45\text{N.m}$   
 Controller :NC01  
 Display :ND02(Optional)  
 Sensor :NT01(Optional)  
 Battery:NB01  
 Downtube Integrated

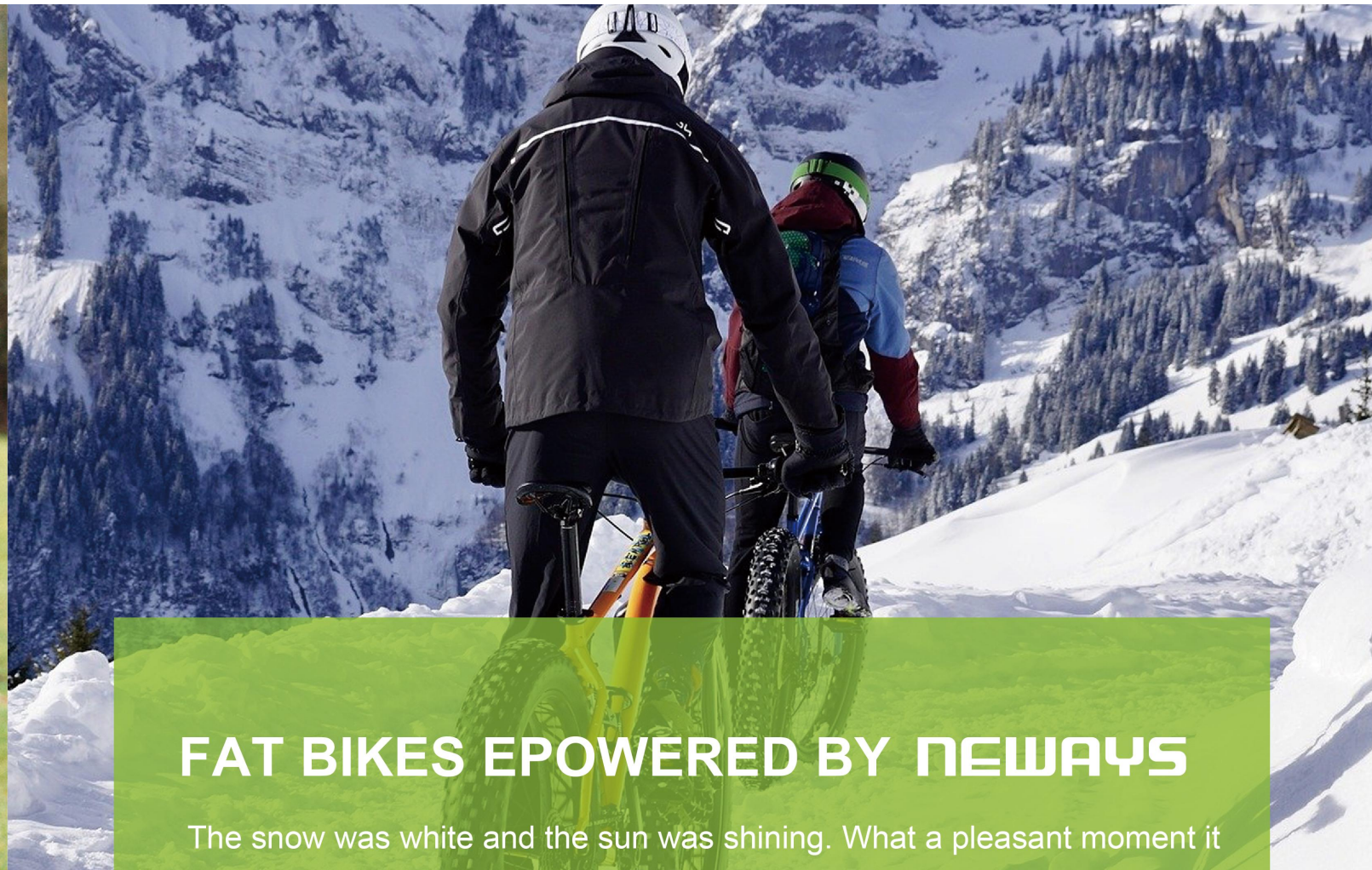


Motor :NR350  
 Power :350W  
 Max Torque :  $\geq 55\text{N.m}$   
 Controller :NC02  
 Display :ND03(Optional)  
 Color Screen  
 Sensor :NT01(Optional)  
 Battery:NB01  
 Downtube Integrated



## URBAN AND TREKKING BIKES EPOWERED BY NEWAYS

For years now more and more people have been enjoying travelling on two wheels, whether for appreciating nature and landscapes on their doorstep to following trends toward greater sustainability



## FAT BIKES EPOWERED BY NEWAYS

The snow was white and the sun was shining. What a pleasant moment it was for us to go travelling by EFAT. Let's enjoy life together in the ocean of happiness!



- Motor :NR500
- Power :500W
- Max Torque :  $\geq 60$ N.m
- Controller :NC03
- Display :ND03(Optional)  
Color Screen
- Sensor :NT01(Optional)
- Battery: NB04
- Rear Rack type



- Motor :NR750
- Power :350W-1000W
- Max Torque :  $\geq 65$ N.m
- Controller :NC03
- Display :ND03(Optional)  
Color Screen
- Sensor :NT01(Optional)
- Battery: NB02
- Downtube Integrated



## WHEELCHAIRS BIKES EPOWERED BY NEWAYS

Our wheelchairs bikes use a new generation motor. The electric motor is equipped with electromagnetic brake and has been tested 500,000 times a year which guarantees the safety of users to a greater extent.

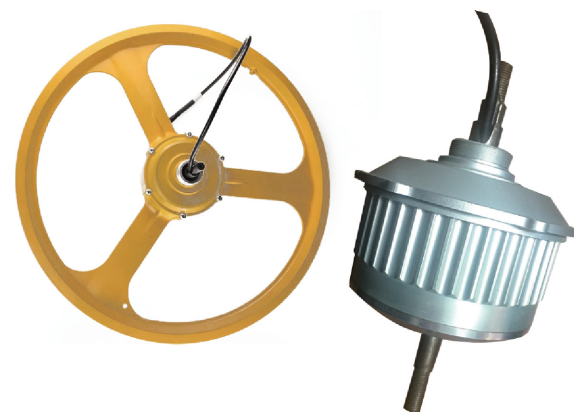


## FARM VEHICLE EPOWERED BY NEWAYS

After work, life's pleasures can continue by mowing the lawn with the children or sowing crops with our farm vehicles. Our vehicles will simplify life, this is the original flavor of life!



Motor :MWM-12 ,Power:250W, Speed:8km/h  
Max Torque:30N.m Magnetic Lock:integrated



Wheel:Magnesium Wheel Motor :NR250  
Power:250W Max Torque : $\geq 45$ N.m Brake :Drum Brake



Motor :NFN350 Power:350W-1000W Max Torque :80N.m  
Battery :NB01 Controller :NC02



# CONVERSION KITS BY NEWAYS

We can provide professional customized solutions



Motor :250 W NF250 motor with rim  
 Controller:NC01 controller  
 Sensor :Torque /speed sensor (optional)



Motor :350 W NR350 motor with rim  
 Controller:NC02 controller  
 Sensor :Torque /speed sensor (optional)







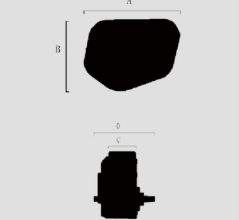
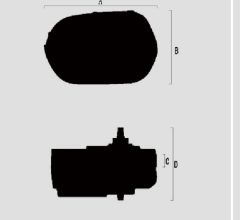
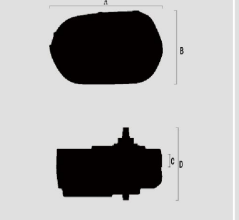
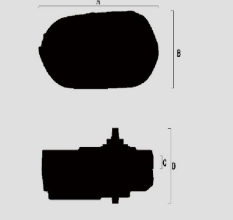
Motor :500 W NR500 motor with rim  
 Controller:NC03 controller  
 Sensor :Torque /speed sensor (optional)



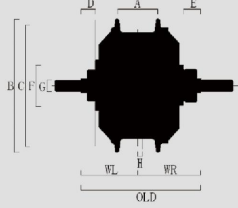




Motor :750 W NR750 Fat ebike motor with magnesium wheel  
 Controller:NC03 controller  
 Sensor :Torque /speed sensor (optional)



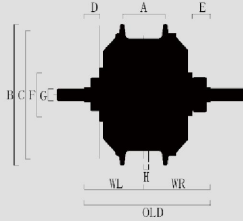




# MID MOTOR

Motor Type	NM250	NM250-1	NM350	NM500	
<b>Position</b>	Mid Motor	Mid Motor	Mid Motor	Mid Motor	
<b>Appearance</b>					
<b>Usage Recommendation</b>	E-CITY/E-TOUR				
<b>Matching Components</b>	built-in controller, suspension, LCD instrument, assembly line, speedometer, crank, crankset				
<b>Dimensions</b>					
<b>Size</b>	A(mm)	194	234	234	234
	B(mm)	143	168	168	168
	C(mm)	72	70	70	70
	D(mm)	160	160	160	160
<b>Core Data</b>	<b>Voltage(DCV)</b>	24/36/48	36/48	36/48	36/48
	<b>Rated Power(W)</b>	250	250	350	500
	<b>Speed(km/h)</b>	25-30	25-35	25-35	25-45
	<b>Maximum Torque(N.m)</b>	80	100	110	130
	<b>Maximum Efficiency(%)</b>	≥81	≥81	≥81	≥81
	<b>Cooling Method</b>	AIR	Oil (GL-6)	Oil (GL-6)	Oil (GL-6)
	<b>Wheel Size(inch)</b>	Optional	Optional	Optional	Optional
	<b>Gear Ratio</b>	1:35.3	1:22.7	1:22.7	1:22.7
	<b>Pair of Poles</b>	4	8	8	8
	<b>Noisy( dB)</b>	<50	<50	<50	<50
	<b>Weight(kg)</b>	2.9	4.6	4.6	5.2
	<b>Shaft Standard</b>	JIS/ISIS	JIS/ISIS	JIS/ISIS	JIS/ISIS
	<b>Working Temperature(°C)</b>	-30-45	-30-45	-30-45	-30-45
<b>Light Drive Capacity(DCV/W)</b>	6/3(max)	6/3(max)	6/3(max)	6/3(max)	

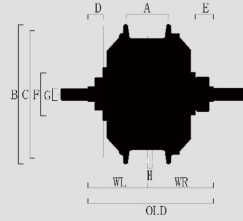




# FRONT MOTOR

Type	SOFL-100=NFL	SOFD-100=NF250	SOFG-100=NF350	SOFV-100=NF500	
<b>Position</b>	Front	Front	Front	Front	
					
<b>Usage Recommendation</b>	E-CITY	E-CITY/E-MTB	E-CITY/E-MTB	E-MTB/E-ROAD	
<b>Size</b>	A(mm)	34.3	45	46.7	38.5
	B(mm)	136	123	158	180
	C(mm)	124	112	144	168
	D(mm)	-	10	9.5	7.5
	E(mm)	22.5	-	-	-
	F(mm)	-	44	44	44
	G(mm)	2-M12*1.25-6g	BC3/8	2-M12*1.25-6g	2-M12*1.25-6g
	H(mm)	1	0	0	-
	OLD(mm)	100	100	100	100
	WL(mm)	51	51	50	54
<b>Core Data</b>	WR(mm)	49	49	50	46
	<b>Voltage(DCV)</b>	24/36/48	24/36/48	24/36/48	24/36/48
	<b>Rated Power(W)</b>	180-250	180-250	350	350/500
	<b>Speed(km/h)</b>	25-32	25-32	25-35	25-35
	<b>Maximum Torque(N.m)</b>	40	45	55	60
	<b>Maximum Efficiency(%)</b>	≥78	≥81	≥81	≥81
	<b>Wheel Size(inch)</b>	16-29	12-29	16-29	20-29
	<b>Gear Ratio</b>	1:4.43	1:6.28	1:5.2	1:5
	<b>Pair of Poles</b>	10	16	10	8
	<b>Noisy(dB)</b>	<50	<50	<50	<50
<b>Weight(kg)</b>	3	1.9	3.5	4	
<b>Working Temperature(°C)</b>	-20-45	-20-45	-20-45	-20-45	
<b>Spoke Specification</b>	36H*12G/13G	36H*12G/13G	36H*12G/13G	36H*12G/13G	
<b>Brakes</b>	Roller-brake	Disc-brake/V-brake	Disc-brake/V-brake	Disc-brake/V-brake	
<b>Cable Position</b>	Left	Right/Left	Right	Right	

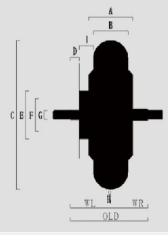



# REAR MOTOR

Type		SOFD-120=NR250	SOFD-135=NR250	SOFG-135=NR350	SOFV-135=NR500
Position		Rear	Rear	Rear	Rear
					
Usage Recommendation		E-CITY/E-MTB	E-CITY/E-MTB	E-CITY/E-MTB	E-MTB/E-ROAD
Size	A(mm)	42	42	46.7	38.5
	B(mm)	123	123	158	180
	C(mm)	112	112	144	168
	D(mm)	15.5	15.5	15.5	15.5
	E(mm)	21	37	37	40.5
	F(mm)	44	44	44	44
	G(mm)	2-M12*1.25-6g	2-M12*1.25-6g	2-M12*1.25-6g	2-M12*1.25-6g
	H(mm)	2	3	5.5	7
	OLD(mm)	124	135	138	140
	WL(mm)	60	64.5	63.5	63
	WR(mm)	64	70.5	74.5	77
Core Data	Voltage(DCV)	24/36/48	24/36/48	24/36/48	36/48
	Rated Power(W)	250	250	350/500	350/500
	Speed(km/h)	25-32	25-32	25-35	25-45
	Maximum Torque(N.m)	45	45	55	60
	Maximum Efficiency(%)	≥81	≥81	≥81	≥81
	Wheel Size(inch)	12-29	12-29	16-29	20-29
	Gear Ratio	1:6.28	1:6.28	1:5.2	1:5
	Pair of Poles	16	16	10	8
	Cassette	NO	Yes	Yes	Yes
	Noisy(dB)	<50	<50	<50	<50
	Weight(kg)	2.4	2.4	3.5	4.1
	Working Temperature(°C)	-20-45	-20-45	-20-45	-20-45
	Spoke Specification	36H*12G/13G	36H*12G/13G	36H*12G/13G	36H*12G/13G
Brakes	Disc-brake/V-brake	Disc-brake/V-brake	Disc-brake/V-brake	Disc-brake/V-brake	
Cable Position	Left	Left	Right	Right	


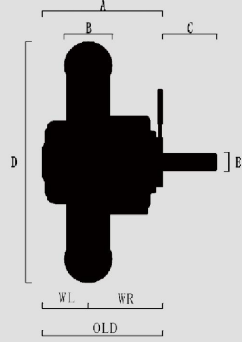
# FAT E-BIKE MOTOR

Type		SOFX-135=NF750	SOFX-175/180/190=NR500	SOFX-175/180/190=NR750	SOFXK-180=NRK750
Position		Front	Rear	Rear	Rear
					
Usage Recommendation		E-CITY	E-CITY	E-CITY	E-FAT/E-CARGO
Size	A(mm)	71.5	71.5	71.5	71.5
	B(mm)	158	158	158	158
	C(mm)	145	145	145	145
	D(mm)	9.5	15.5	15.5	15.5
	E(mm)	-	40.5	40.5	43
	F(mm)	44	44	44	44
	G(mm)	2-M12*1.25-6g	2-M12*1.25-6g	2-M12*1.25-6g	2-M12*1.25-6g
	H(mm)	2.5	1.5	1.5	2.5
	OLD(mm)	135	175	175	185
	WL(mm)	70	86	86	85
	WR(mm)	65	89	89	90
Core Data	Voltage(DCV)	36/48	36/48	36/48	36/48
	Rated Power(W)	350/500/750	350/500	350/500/750	350/500/750
	Speed(km/h)	25-45	25-45	25-45	25-45
	Maximum Torque(N.m)	65	60	65	65
	Maximum Efficiency(%)	≥81	≥81	≥81	≥81
	Wheel Size(inch)	20-29	20-29	20-29	20-29
	Gear Ratio	1:5.2	1:5.2	1:5.2	1:5.2
	Pair of Poles	10	10	10	10
	Noisy(dB)	<50	<50	<50	<50
	Weight(kg)	4.3	4.3	4.3	4.5
	Working Temperature(°C)	-20-45	-20-45	-20-45	-20-45
	Spoke Specification	36H*12G/13G	36H*12G/13G	36H*12G/13G	36H*12G/13G
	Brakes	Disc-brake	Disc-brake	Disc-brake	Disc-brake
Cable Position	Right	Right	Left	Right	


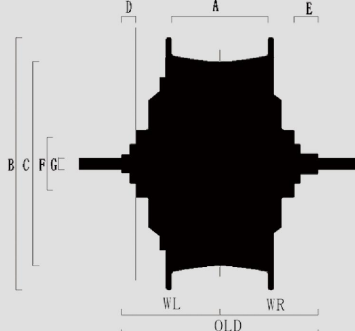
## E-SCOOTER

Type		Drum brake	E-brake	Disc brake
<b>Position</b>		Front	Front	Front
				
<b>Usage Recommendation</b>		E-Scooter	E-Scooter	E-Scooter
<b>Size</b>	A(mm)	59	59	59
	B(mm)	45	45	45
	C(mm)	200	200	200
	D(mm)	5	-	12.5
	E(mm)	80	-	-
	F(mm)	-	-	44
	G(mm)	M12*1.25	M12*1.25	M12*1.25
	H(mm)	2.5	2.5	0
	OLD(mm)	106	106	106
	WL(mm)	53	55.5	55.5
WR(mm)	53	50.5	50.5	
<b>Core Data</b>	Voltage(DCV)	24/36/48	24/36/48	24/36/48
	Rated Power(W)	250	250	250
	Speed(km/h)	25-32	25-32	25-32
	Maximum Torque(N.m)	20	20	20
	Maximum Efficiency(%)	≥81	≥81	≥81
	Wheel Size(inch)	8	8	8
	Gear Ratio	-	-	-
	Pair of Poles	15	15	15
	Noisy(dB)	<50	<50	<50
	Weight(kg)	3.5	3.2	3.2
Working Temperature(°C)	-20-45	-20-45	-20-45	
Spoke Specification	-	-	-	
<b>Brakes</b>		Drum brake	E-brake	Disc-brake
<b>Cable Position</b>		Right	Right/Left	Right

## E-WHEELCHAIR MOTOR

Motor Type	MWM				
<b>Appearance</b>					
<b>Usage Recommendation</b>	E-Wheelchair				
<b>Matching Components</b>	2 motors, 1 controller, 1 joystick				
<b>Dimensions</b>					
<b>Size</b>	A (mm)	120	<b>Core Data</b>	Voltage (DCV)	24/36/48
	B (mm)	48		Rated Power(W)	250
	C (mm)	46		Speed(km/h)	8
	D (mm)	305		Maximum Torque (N.m)	30
	E (mm)	M16*1.5		Maximum Efficiency (%)	≥78
	OLD (mm)	120		Wheel Size (inch)	8-24
	WL (mm)	45		Gear Ratio	1:4.43
	WR (mm)	75		Pair of Poles	10
<b>Brakes</b>		E-brake	Noisy( dB)		<50
<b>Cable Position</b>		Shaft Side	Weight(kg)		2.2
			Working Temperature(°C)		-20-45

# FARM VEHICLE

Motor Type		NFN			
Appearance	Agriculture machines, Mini engineering vehicle, Aging scooter				
Usage Recommendation					
Dimensions					
Size	A (mm)	80	Core Data	Voltage(DCV)	24/36/48
	B (mm)	210		Rated Power(W)	350-1000
	C (mm)	179		Speed(km/h)	6-10
	D (mm)	12		Maximum Torque(N.m)	80
	E (mm)	18.7		Maximum Efficiency(%)	≥81
	F (mm)	44		Wheel Size	Optional
	G (mm)	M14*1.5		Gear Ratio	1:6.9
	OLD (mm)	163		Pair of Poles	15
	WL (mm)	81.5		Noisy(dB)	<50
WR (mm)	81.5	Weight(kg)	5.8		
Brakes	Disc-brake	Working Temperature(°C)	-20-45		
Cable Position	Left/Right	-	-		

# DISPLAY

Type	ND01	ND02	ND03	ND04	
Photo					
Drawing					
Dimension Size	A (mm)	65	65	96	98
	B (mm)	48	48	58	55
	C (mm)	36.9	36.9	69	73
	D (mm)	33.9	33.9	46	42
	E (mm)	48.6	48.6	72	67
	F (mm)	φ22.2	φ22.2	φ22/25.4/31.8	φ22/25.4/31.8
Core Data	Display Type	LED	LCD	LCD	LCD
	Rated Voltage(DCV)	24/36/48	24/36/48	24/36/48	24/36/48
	Support Modes	0-3/0-5/0-9	0-3/0-5/0-9	0-3/0-5/0-9	0-3/0-5/0-9
	Com.Protocol	UART	UART/485	UART	UART
Mounting Parameters	Dimensions (mm)	65/49/48	65/49/48	96/58/72	98/55/67
	Handlebar for Holding	φ22.2	φ22.2	φ22/25.4/31.8	φ22/25.4/31.8
	Current Speed(km/h)	NO	YES	YES	YES
Indication Information	Maximum Speed(km/h)	NO	YES	YES	YES
	Average Speed(km/h)	NO	YES	YES	YES
	Distance Single Trip	NO	YES	YES	YES
	Total Distance	NO	YES	YES	YES
	Battery Level	YES	YES	YES	YES
	Error Code Display	YES	YES	YES	YES
	Walk Assistance	YES	YES	YES	YES
Further Spec	Input Wheel Diameter	NO	YES	NO	NO
	Light Sensor	YES	YES	YES	YES
	Bluetooth	NO	NO	NO	NO
	USB Charge	YES	YES	NO	NO
Test & Certifications	Waterproof:IPX6 Certifications:CE/EN15194/RoHS				

# CONTROLLER

Type		NC01	NC02	NC03
Photo				
Drawing				
Dimension Size	A (mm)	87	189	189
	B (mm)	52	58	58
	C (mm)	31	49	49
Core Data	Rated Voltage(DCV)	24/36/48	36/48	36/48
	Low Voltage Protection(DCV)	30/42	30/42	30/42
	Max Current(A)	15A(±0.5A)	20A(±0.5A)	22A(±0.5A)
	Rated Current(A)	7A(±0.5A)	10A(±0.5A)	11A(±0.5A)
	Rated Power(W)	250	350	500
	Weight (kg)	0.2	0.3	0.3
	Operating Temperature(°C)	-20-45	-20-45	-20-45
	Mounting Parameters	Dimensions (mm)	87*52*31	189*58*49
Further Information	Com.Protocol	FOC	FOC	FOC
	E-Bake Level	Yes	Yes	Yes
	Pas Mode	Yes	Yes	Yes
Further Information	Control Type	Sinewave	Sinewave	Sinewave
	Support Mode	0-3/0-5/0-9	0-3/0-5/0-9	0-3/0-5/0-9
	Speed Limit(km/h)	25	25	25
	Light Drive	6V3W(Max)	6V3W(Max)	6V3W(Max)
	Walk Assistance	6	6	6
	Test & Certifications	Waterproof:IPX6 Certifications:CE/EN15194/RoHS		

# BATTERY

Motor Type		NB01	NB02	NB03	NB04
Photo					
Core Data	Type	Lithium battery (Hailong)	Lithium battery(Polly)	Lithium battery(Dorado)	Lithium battery(Vulpecula)
	Rated Voltage(DCV)	36	48	36	48
	Rated Capacity(Ah)	10,11,13,14.5,16,17.5	10,11,13,14.5,16,17.5	12,15.6,17.4,21	10,11,13,14.5,16,17.5
	Battery cell brand	Samsung/Panasonic/LG/China-made cell	Samsung/Panasonic/LG/China-made cell	Samsung/Panasonic/LG/China-made cell	Samsung/Panasonic/LG/China-made cell
	Over Discharge Protection (DCV)	27.5±0.5	36.4±0.5	36.4±0.5	28±0.5
	Over Charge Protection(V)	42±0.01	54.6±0.01	54±0.01	42±0.01
	Transient Excess Current (A)	100±10	100±10	160±10	160±10
	Charge Current(A)	≤5	≤5	≤5	≤5
	Discharge Current(A)	≤25	≤25	≤30	≤30
	Charge Temperature(°C)	0-45	0-45	0-45	0-45
	Discharge Temperature(°C)	-10-60	-10-60	-10-60	-10-60
	Material	Full Plastic	Full Plastic	Plastic+Aluminum	Full Plastic
	USB Port Voltage(DCV)	NO	NO	5±0.2	5±0.2
	Storage Temperature(°C)	-10-50	-10-50	-10-50	-10-50
	Test & Certifications	Waterproof:IPX5 Certifications:CE/EN15194/RoHS			

# SENSOR

Type		NT01	NT02	NS01	NS02
Photo					
Drawing					
Dimension Size	L (mm)	143	143	143	-
	A (mm)	30.9	25.9	30.9	φ44.1
	B (mm)	68	73	68	φ17.8
	C (mm)	44.1	44.1	44.1	φ15.2
	CL (mm)	45.2	45.2	45.2	-
Core Data	Torque output Voltage(DCV)	0.80-3.2	0.80-3.2	-	-
	Signals(Pulses/Cycle)	32r	32r	12r/24r/36r	12r/24r
	Input Voltage(DCV)	4.5-5.5	4.5-5.5	4.5-5.5	4.5-5.5/3-20
	Rated current (mA)	<50	<50	<50	10
	Input Power(W)	<0.3	<0.3	<0.2	-
	Tooth plate specification(pcs)	1/2/3	-	-	Optional
	Resolution(mv/N.m)	30	30	0.5-80	-
	Bowl thread specification	BC 1.37*24T	BC 1.37*24T	BC 1.37*24T	-
	BB Width(mm)	68	73	68/73	-
	IP Grade	IP65	IP65	IP65	IP66
Operating Temperature(°C)	-20-60	-20-60	-20-60	-20-60	
Test & Certifications		Waterproof:IPX5 Certifications:CE/EN15194/RoHS			

