NEWAYS

For Health, For Low Carbon Life

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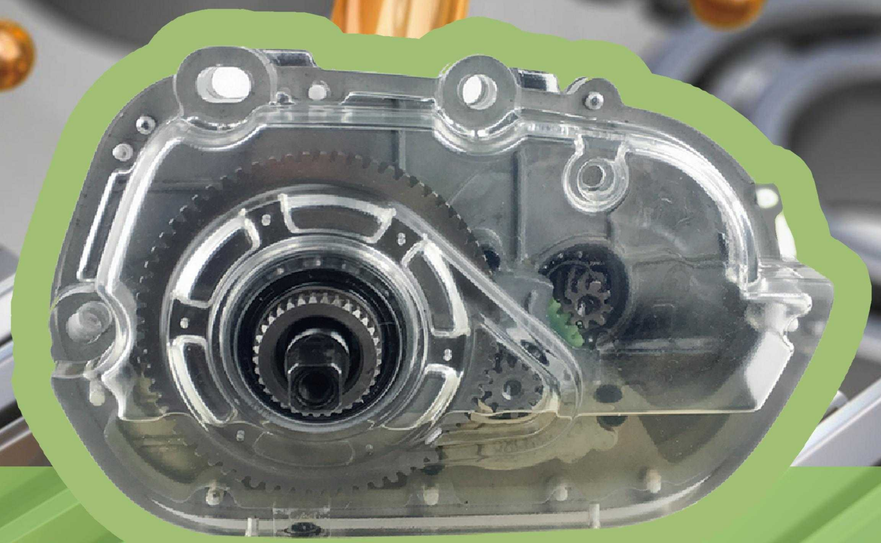


We know E-Bike will lead the bicycle development trend in the future. And the mid drive motor is the best solution for e-bike.

Our first generation of mid-motor was born successfully in 2013. Meanwhile, we completed the test of 100,000 kilometers in 2014, and put it on the market immediately. It has good feedback .

But our engineer was thinking how to upgrade it. One day, one of our engineer, Mr.Lu was walking in the street , lots of motor-cycles were passing by. Then an idea hits him , what if we put the engine oil into our mid-motor, will the noise low down ? Yes, it is. This is how our mid-motor inside lubricating oil comes from.

eCITY

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:≧130N.m

Display :ND04

Screen:B&W

Controller :Integrated

Torque Sensor :NT01(Optional)

Oil Type :GL-6

IP66

Motor:NM350

Power:350W

Max Torque:≧110N.m

Display :ND02

Screen:B&W

Controller :Integrated

Torque Sensor :NT01(Optional)

Oil Type :GL-6

IP66

Motor:NM250

Power:250W

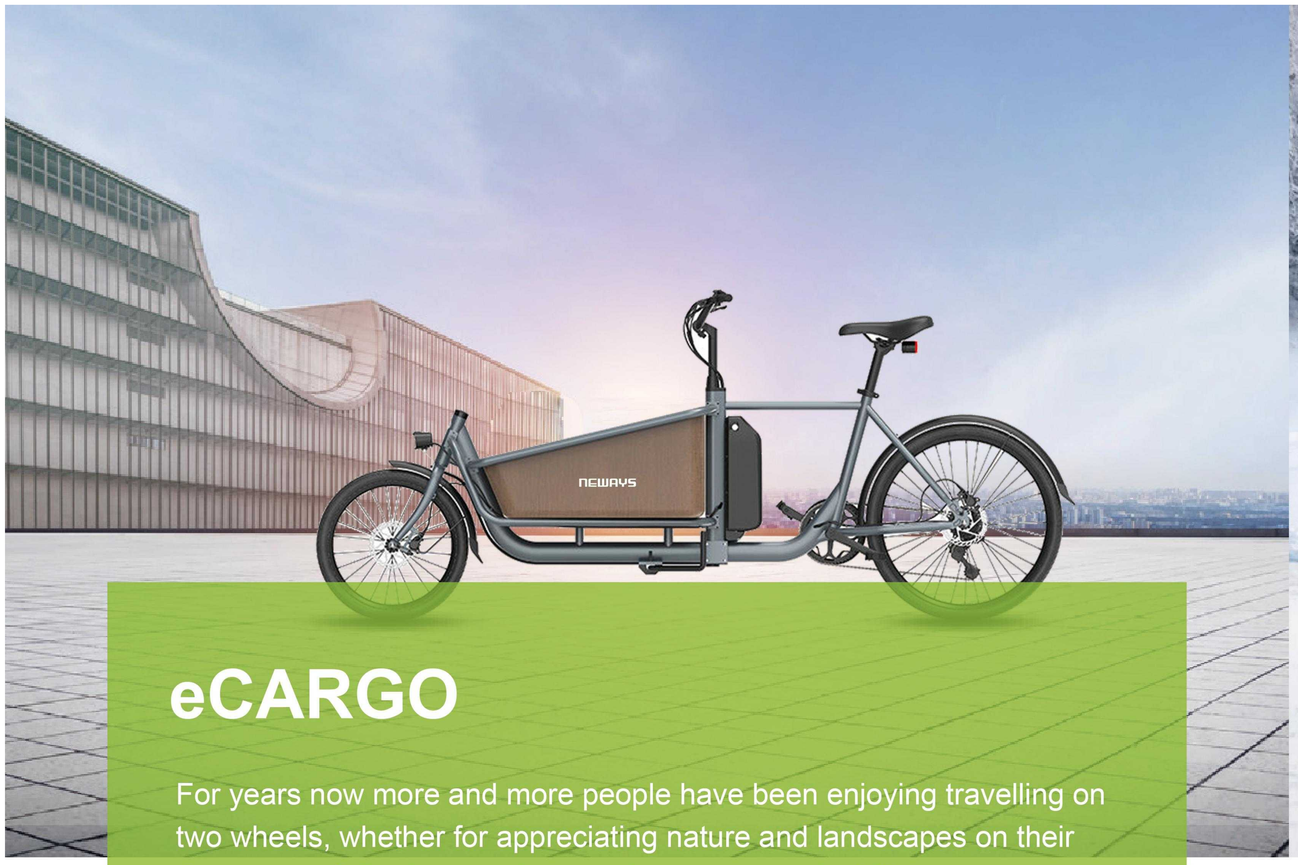
Max Torque:≧70N.m

Display :ND03

Screen: Color

Controller :Integrated

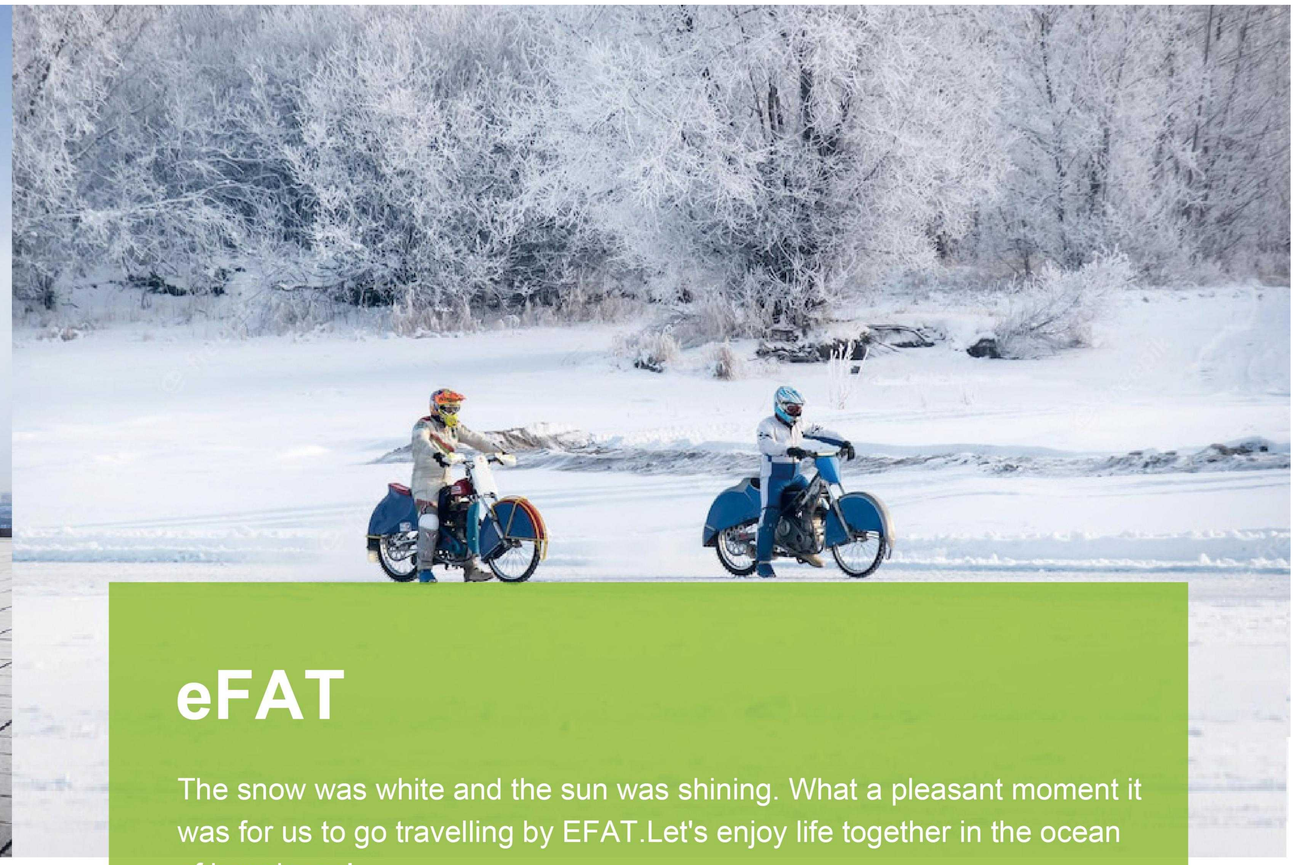
Torque Sensor :NT01(Optional)



eCARGO

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

Motor :NR500
Power：500W
Max Torque :≧60N.m
Controller :NC03
Display :ND03(Optional)
Color Screen
Sensor :NT01(Optional)
Battery: NB04
Racktype



eFAT

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 :NR750
Power：350W-1000W
Max Torque :≧80N.m
Controller :NC03
Display :ND03(Optional)
Color Screen
Sensor :NT01(Optional)
Battery: NB02
Downtube Integrated

eCARGO

ECargo can change the way people travel by making it more efficient and sustainable. It promotes the use of electric or hybrid vehicles, reducing air and noise pollution, which can make travel more enjoyable for tourists.

Motor :NR500

Power：500W

Max Torque :≧60N.m

Controller :NC03

Display :ND03(Optional)

Color Screen

Sensor :NT01(Optional)

Battery: NB04

Racktype

eFAT

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 :NR750

Power：350W-1000W

Max Torque :≧80N.m

Controller :NC03

Display :ND03(Optional)

Color Screen

Sensor :NT01(Optional)

Battery: NB02

Downtube Integrated

WHEELCHAIRS BIKES

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

After work, life's pleasures can continue by mowing the lawn with the children or sowing crops with our farm vehicles. Our agriculture wheel motor 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

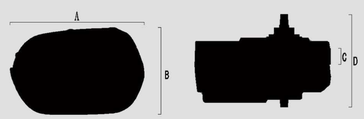
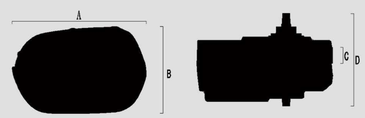
Wheel：Magnesium Wheel Motor :NR250

Power：250W Max Torque :≧45N.m Brake :Drum Brake

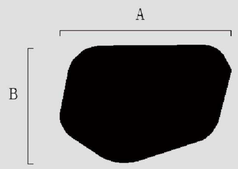
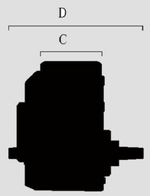
Motor :NFN350 Power:350W-1000W Max Torque :80N.m

Battery :NB01 Controller :NC02

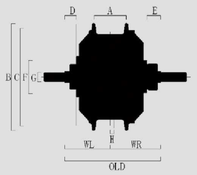
MID MOTOR

Motor Type		NM350	NM500
Position		Mid Motor	Mid Motor
Appearance			
Usage Recommendation		E-CITY/E-TOUR/E-CARGO	
Matching Components		built-in controller, suspension, LCD instrument, assembly line, speedometer, crank, crankset	
Dimensions			
Size	A(mm)	234	234
	B(mm)	168	168
	C(mm)	75	75
	D(mm)	160	160
Core Data	Voltage(DCV)	36/48	36/48
	Rated Power(W)	350	500
	Speed(km/h)	25-35	25-45
	Maximum Torque(N.m)	110	130
	Maximum Efficiency(%)	≥81	≥81
	Cooling Method	Oil（GL-6)	Oil（GL-6)
	Wheel Size(inch)	Optional	Optional
	Gear Ratio	1:22.7	1:22.7
	Pair of Poles	8	8
	Noisy(dB)	＜50	＜50
	Weight(kg)	4.6	5.2
	Shaft Standard	JIS/ISIS	JIS/ISIS
	Working Temperature(°C)	-30-45	-30-45
	Light Drive Capacity(DCV/W)	6/3(max)	6/3(max)

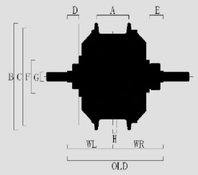
MID MOTOR

Motor Type		NM250
Position		Mid Motor
Appearance		
Usage Recommendation		E-CITY/E-TOUR
Matching Components		built-in controller, suspension, LCD instrument, assembly line, speedometer, crank, crankset
Dimensions		 
Size	A(mm)	185
	B(mm)	110
	C(mm)	75
Core Data	D(mm)	159
	Voltage(DCV)	36/48
	Rated Power(W)	250
	Speed(km/h)	25-30
	Maximum Torque(N.m)	70
	Maximum Efficiency(%)	≥81
	Wheel Size(inch)	Optional
	Gear Ratio	1:35.3
	Pair of Poles	4
	Noisy(dB)	＜50
	Weight(kg)	2.9
	Working Temperature(°C)	-30-45

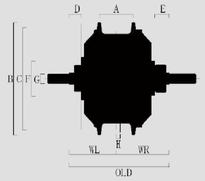
FRONT MOTOR

Type		SOFL-100=NFL	SOFD-100=NF250	SOFG-100=NF350	SOFV-100=NF500
Position		Front	Front	Front	Front
						
Usage Recommendation		E-CITY	E-CITY/E-MTB	E-CITY/E-MTB	E-MTB/E-ROAD
Size	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	10.5
	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	1	0	6.5
	OLD(mm)	100	100	100	102.5
	WL(mm)	51	51	50	57.75
Core Data	WR(mm)	49	49	50	44.75
	Voltage(DCV)	24/36/48	24/36/48	24/36/48	24/36/48
	Rated Power(W)	180-250	180-250	350	350/500
	Speed(km/h)	25-32	25-32	25-35	25-35
	Maximum Torque(N.m)	40	45	55	65
	Maximum Efficiency(%)	≥78	≥81	≥81	≥81
	Wheel Size(inch)	16-29	12-29	16-29	20-29
	Gear Ratio	1:4.43	1:6.28	1:5.2	1:5
	Pair of Poles	10	8	10	8
	Noisy(dB)	＜50	＜50	＜50	＜50
	Weight(kg)	3	2.1	3.5	4
	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		Roller-brake	Disc-brake/V-brake	Disc-brake/V-brake	Disc-brake/V-brake
Cable Position		Left	Right/Left	Right	Right

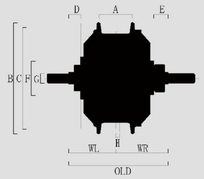
REAR MOTOR

Type		SOFK145=NRDK250	XFCK=NRCK250	SOFG-145=NRGK350	SOFVK-135=NRVK500
Position		Rear	Rear	Rear	Rear
						
Usage Recommendation		E-CITY/E-MTB	E-CITY/E-MTB	E-CITY/E-MTB	E-CITY/E-MTB
Size	A(mm)	42	45.3	46.7	38.5
	B(mm)	123	134	158	180
	C(mm)	112	121	144	168
	D(mm)	15.5	14.5	15.5	15.5
	E(mm)	41	41.5	-	39
	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)	8	7.5	-	6.5
	OLD(mm)	145	138	142	138
	WL(mm)	64.5	62	-	62.75
Core Data	WR(mm)	80.5	77	-	75.75
	Voltage(DCV)	24/36/48	24/36/48	24/36/48	24/36/48
	Rated Power(W)	180-250	180-250	350	350/500
	Speed(km/h)	25-32	25-32	25-35	25-45
	Maximum Torque(N.m)	45	45	55	65
	Maximum Efficiency(%)	≥81	≥81	≥81	≥81
	Wheel Size(inch)	12-29	16-29	16-29	20-28
	Gear Ratio	1:6.28	1:4.43	1:5.2	1:5
	Pair of Poles	8	10	10	8
	Noisy(dB)	＜50	＜50	＜50	＜50
	Weight(kg)	2.4	3	3.7	4.2
	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/Rim-brake	Disc-brake/Rim-brake	Disc-brake/Rim-brake	Disc-brake/Rim-brake
Cable Position		Shaft side,Left	Right	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	39
	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	6.5
	OLD(mm)	124	135	138	138
	WL(mm)	60	64.5	63.5	62.75
	WR(mm)	64	70.5	74.5	75.75
Core Data	Voltage(DCV)	24/36/48	24/36/48	24/36/48	36/48
	Rated Power(W)	250	250	350	350/500
	Speed(km/h)	25-32	25-32	25-35	25-45
	Maximum Torque(N.m)	45	45	55	65
	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	8	8	10	8
	Cassette	NO	Yes	Yes	Yes
	Noisy(dB)	＜50	＜50	＜50	＜50
	Weight(kg)	2.3	2.3	3	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

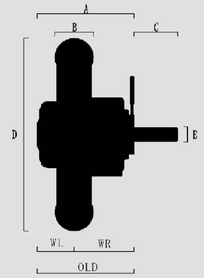
FAT E-BIKE MOTOR

Type		SOFX-135=NF750	SOFX-175/180/190=NR500	SOFX-175=NR1000	SOFXK-180=NRK750
Position		Front	Rear	Rear	Rear
					
Usage Recommendation		E-CITY	E-FAT/E-CARGO	E-FAT/E-CARGO	E-FAT/E-CARGO
Size	A(mm)	71.5	71.5	71.5	71.5
	B(mm)	158	158	184	158
	C(mm)	145	145	170	145
	D(mm)	9.5	15.5	15.5	15.5
	E(mm)	-	40.5	40.5	40.9
	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)	3.5	6.75	8.75	3.25
	OLD(mm)	135	177	175	178
	WL(mm)	71	81.75	78.75	85.75
	WR(mm)	64	92.25	96.25	92.25
Core Data	Voltage(DCV)	36/48	36/48	48/52	36/48
	Rated Power(W)	350/500/750	350/500/750	1000	350/500/750
	Speed(km/h)	25-45	25-45	25-55	25-45
	Maximum Torque(N.m)	80	80	100	100
	Maximum Efficiency(%)	≥81	≥81	≥81	≥81
	Wheel Size(inch)	20-26	20-26	20-26	20-26
	Gear Ratio	1:5.2	1:5.2	1:5.2	1:5.2
	Pair of Poles	10	10	8	10
	Noisy(dB)	＜50	＜50	＜50	＜50
	Weight(kg)	4.3	4.3	4.8	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	Left	Left	Right

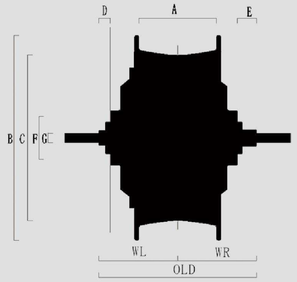
E-SCOOTER

Type		Drum brake	E-brake	Disc brake
Position		Front	Front	Front
Usage Recommendation		E-Scooter	E-Scooter	E-Scooter
Size	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
Core Data	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	-	-	-
Brakes		Drum brake	E-brake	Disc-brake
Cable Position		Right	Right/Left	Right

E-WHEELCHAIR MOTOR

Motor Type		MWM			
Appearance					
Usage Recommendation		E-Wheelchair			
Matching Components		2 motors, 1 contorller, 1 joystick			
Dimensions					
Size	A（mm）	120	Core Data	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）	35
	E（mm）	M16*1.5		Maximum Efficiency（%）	≥78
	OLD（mm）	125		Wheel Size（inch）	12
	WL（mm）	45		Gear Ratio	1:4.43
	WR（mm）	80		Pair of Poles	10
	-	-		Noisy(dB)	＜50
Brakes		E-brake		Total Weight(kg)	8
Cable Position		Shaft Side		Working Temperature(°C)	-20-45

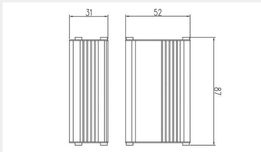
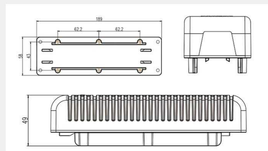
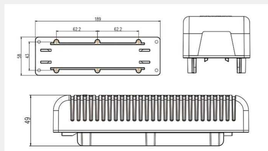
FARM VEHICLE

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)	500
	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
Indication Information	Current Speed(km/h)	NO	YES	YES	YES
	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			

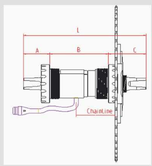
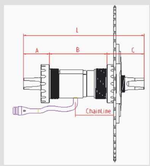
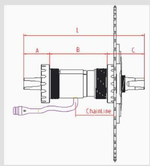
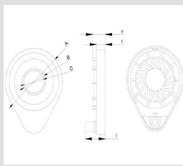
CONTROLLER

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(℃)	-20-45	-20-45	-20-45
Mounting Parameters	Dimensions (mm)	87*52*31	189*58*49	189*58*49
	Com.Protocol	FOC	FOC	FOC
	E-Bake Level	Yes	Yes	Yes
Further Information	Pas Mode	Yes	Yes	Yes
	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(℃)	0-45	0-45	0-45	0-45
	Discharge Temperature(℃)	-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(℃)	-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			

NEWAYS

We are planning to design a new housing with a built-in lubricated motor, which is expected to be launched in 2024. It'll be smaller and prettier, but still have strong performance! Learn more, pls visit our website and leave your suggestions!

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