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DRIVETRAIN
TECHNOLOGY

UNITEK

2026

CERTIFICATES


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Verification Report


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SGS Compliance Certification Services (Kunshan) Inc.

VERIFICATION OF COMPLIANCE


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Compliance Certification Services (Kunshan) Inc.

TEST REPORT


SGS Compliance Certification Services (Kunshan) Inc.

VERIFICATION OF COMPLIANCE


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Compliance Certification Services (Kunshan) Inc.

TEST REPORT


CE




CE




Test Report

No.: TO.300.21.10002.01

Date: 2021-03-15


Test Report


ISET S.r.l. Unipersonale

CERTIFICATE


Technical Construction File

Type of Equipment:	Geared Hub Motor
Model No.:	G2M, G2ML, G2ML, G2MR,G2MR-CA, G2MR-CA,G2MR-AA,G2MR-AA,G2MR, G2MRE,G2MRE,G2MR-TA,G2MR-TA,G2MRT-CA, G2MR,G2MPR,G2MPRV,G2MRW
Issued Date:	2020-10-10
Brand Name/Trade mark:	—
Directive(s)	Low Voltage Directive 2014/35/EU Electromagnetic Compatibility Directive 2014/30/EU
standard(s):	EN 60034-1:2010+AC:2010, EN60034-5:2001,EN 60034-30-1:2015

CE

Presented by

Unitek Drive System (Suzhou) Co., Ltd.

Room 3-1, Block 3-4, 55 Tingjiang Road, S.I.P., Suzhou, China


QMS CERTIFICATE OF REGISTRATION

Unitek Drive System (Suzhou) Co., Ltd.

GB/T19001-2016/ISO9001:2015

Sales of Electric Bicycle Motors (Exporting Only)


质量管理体系认证证书

尤尼科电驱动系统(苏州)有限公司

GB/T19001-2016/ISO9001:2015

电动自行车电机的销售（仅出口）

北京中鼎欧元认证有限公司


商标注册证

尤尼科

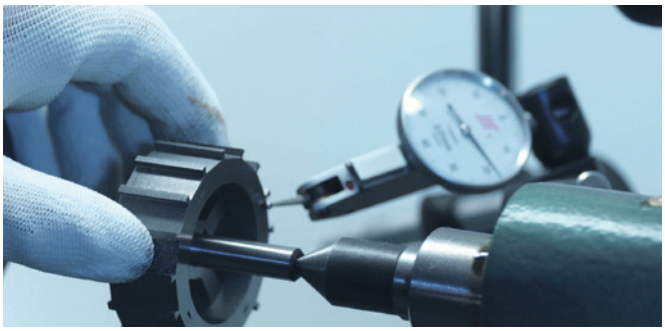

实用新型专利证书

ABOUT US

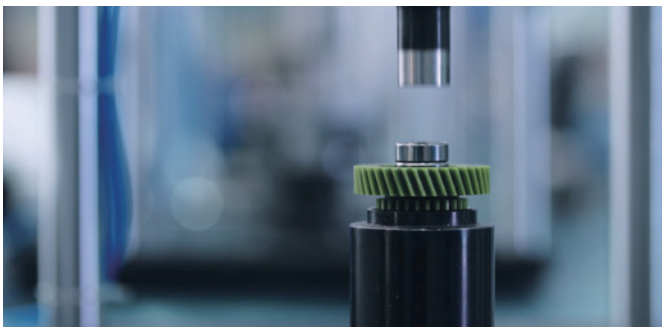
尤尼科电驱动系统有限公司，位于中国苏州。我们致力于打造可靠，高质量的动力传动系统，为各种类型的电动助力车提供动力支持，并提供集研发，制造和服务于一体的全套解决方案。 我们的团队擅于发掘市场趋势，凭借在电动助力车行业超过15年的经验以及丰富的技术积累，在确保产品可靠性和稳定性的前提下，勇于创新，不断开拓。

为员工创造机会，为客户创造价值，为消费者创造愉悦的骑行体验，是我们不断追求的目标和使命。

UNITEK, a company specializing in drivetrain technology, is located in Suzhou, China. With more than 15 years' experience in E-bike industry and very strong engineering background, our team is sensitive to market trends and dare to actively innovate the products. We focus on creating reliable, high-quality drivetrain products from R&D, manufacturing and service. We aim to offer you satisfying products and an enjoyable riding.





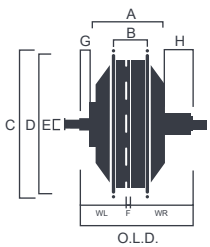






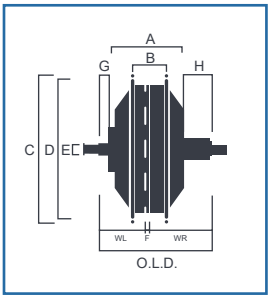


Motor For E-bike



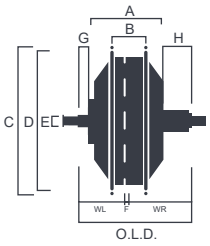
	G200	G250	G250R-CA	G350R-CA
				
Dimension				
A	71.6mm	81.5mm	75.3mm	83mm
B	38.5mm	42mm	42mm	47mm
C	120mm	124mm	124mm	124mm
D	109mm	112mm	112mm	112mm
E	M12*1.25	M12*1.25	M12*1.25	M12*1.25
F	0mm	4.5mm	8.25/9.25mm	4.85/6.35mm
G	1.7mm	10.5mm	15.25mm	15.25mm
H	1.7mm	8mm	44.45/46.45mm	43.75/46.75mm
WL	37.5mm	50mm	59.25mm	66.15mm
WR	37.5mm	45.5mm	67.5/68.5mm	71/72.5mm
Technical Data				
Mounting Position	Front	Front	Rear	Rear
Wheel Size	16-20”	20-29”	20-29”	20-29”
Rated Voltage	36V	36/48V	36/48V	36/48V
Rated Power	200W	250-350W	250W	250-350W
Max Torque	30N.m	45N.m	35N.m	45N.m
Throttle	N/A	N/A	N/A	N/A
Reduction Ratio	1:12.5	1:12.5	1:12.5	1:12.5
Speed Signals	1/6	1/6	1/6	1/6
Pole-pairs	8	8	8	8
Color	Black/Silver	Black/Silver	Black/Silver	Black/Silver
Weight	1.6KG	2.0KG	2.0KG	2.2KG
Mounting & Certification				
Brake	V	V/Disk	V/Disk	V/Disk
Sprocket	N/A	N/A	10S/11S	10S/11S
O.L.D	75mm	100mm	135/137mm	142/145mm
Cabling Route	Shaft Side(L)	Shaft Side(L)	Shaft Side(L)	Shaft Side(L)
Spoke Spec.	36 Holes	36 Holes	36 Holes	36 Holes
Waterproof	IP65	IP65	IP65	IP65
Certification	RoHS/CE	RoHS/CE	RoHS/CE	RoHS/CE

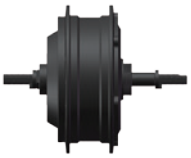
Motor For E-bike

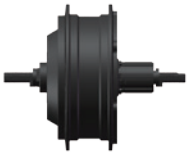


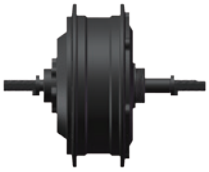
	G250R-S	G250R-T.1	G250R-T.2	G350R-T
				
Dimension				
A	82.2mm	75mm	81mm	84.5mm
B	42mm	42mm	42mm	47mm
C	124mm	124mm	124mm	124mm
D	112mm	112mm	112mm	112mm
E	M12*1.25	M12*1.25	M12*1.25	M12*1.25
F	0.75mm	8.25mm	8.25mm	2.85mm
G	15.25mm	15.25mm	15.25mm	15.25mm
H	22.55mm	44.75mm	38.75mm	42.25mm
WL	59.25mm	59.25mm	59.25mm	68.15mm
WR	60mm	67.5mm	67.5mm	71mm
Technical Data				
Mounting Position	Rear	Rear	Rear	Rear
Wheel Size	20-29”	20-29”	20-29”	20-29”
Rated Voltage	36/48V	36/48V	36/48V	36/48V
Rated Power	250-350W	250W	250-350W	250-300W
Max Torque	45N.m	35N.m	45N.m	45N.m
Throttle	N/A	N/A	N/A	N/A
Reduction Ratio	1:12.5	1:12.5	1:12.5	1:12.5
Speed Signals	1/6	1/6	1/6	1/6
Pole-pairs	8	8	8	8
Color	Black/Silver	Black/Silver	Black/Silver	Black/Silver
Weight	2.1KG	1.9KG	2.1KG	2.2KG
Mounting & Certification				
Brake	V/Disk	V/Disk	V/Disk	V/Disk
Sprocket	Single	7S	7S	7S
O.L.D	120mm	135mm	135mm	142mm
Cabling Route	Shaft Side(L)	Shaft Side(L)	Shaft Side(L)	Shaft Side(L)
Spoke Spec.	36 Holes	36 Holes	36 Holes	36 Holes
Waterproof	IP65	IP65	IP65	IP65
Certification	RoHS/CE	RoHS/CE	RoHS/CE	RoHS/CE

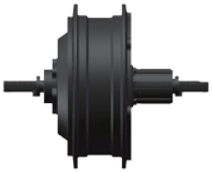
Motor For E-bike





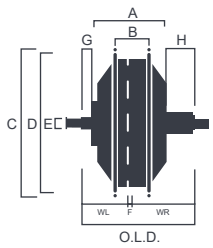


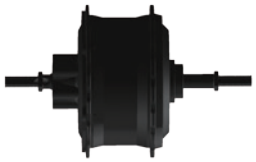
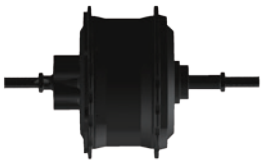




	H250R-T	H250R-CA	H500R-T	H500R-CA
Dimension				
A	80.5mm	80.5mm	81.4mm	84mm
B	44mm	44mm	47.5mm	47.5mm
C	136mm	136mm	157.5mm	157.5mm
D	120mm	120mm	145mm	145mm
E	M12*1.25	M12*1.25	M12*1.25	M12*1.25
F	4.95mm	6.45mm	4.25/5.75mm	5.75/6.75/10.75mm
G	15.25mm	15.25mm	15.25mm	15.25mm
H	39.25mm	42.25mm	38.35/41.35mm	38.75/40.75/48.75mm
WL	62.55mm	62.55mm	63.25mm	63.25mm
WR	67.5mm	69mm	67.5/69mm	69/70/74mm
Technical Data				
Mounting Position	Rear	Rear	Rear	Rear
Wheel Size	20-29”	20-29”	20-29”	20-29”
Rated Voltage	36/48V	36/48V	36/48V	36/48V
Rated Power	250-350W	250-350W	350-500W	350-500W
Max Torque	40N.m	40N.m	50N.m	50N.m
Throttle	Optional	Optional	Optional	Optional
Reduction Ratio	1:4.4	1:4.4	1:5	1:5
Speed Signals	1/6	1/6	1/6	1/6
Pole-pairs	10	10	10	10
Color	Black/Silver	Black/Silver	Black/Silver	Black/Silver
Weight	2.4-2.8KG	2.4-2.8KG	3.5KG	3.7KG
Mounting & Certification				
Brake	V/Disk	V/Disk	Disk	Disk
Sprocket	7S	10S	6S/7S	10S/11S/11S
O.L.D	135mm	138mm	135mm/138mm	138/140/148mm
Cabling Route	Through Shaft(R)	Through Shaft(R)	Through Shaft(R)	Through Shaft(R)
Spoke Spec.	36 Holes	36 Holes	36 Holes	36 Holes
Waterproof	IP65	IP65	IP65	IP65
Certification	RoHS/CE	RoHS/CE	RoHS/CE	RoHS/CE

Motor For Fat-tire



	H750R-T.1	H750R-T.2
		

Dimension

A	113.5mm	123mm
B	72mm	72mm
C	157.5mm	157.5mm
D	145mm	145mm
E	M12*1.25	M12*1.25
F	9.05mm	9mm
G	15.25mm	15.25mm
H	46.25mm	51.75mm
WL	78.45mm	86mm
WR	87.5mm	95mm

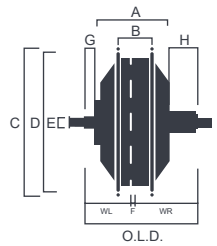
Technical Data

Mounting Position	Rear	Rear
Wheel Size	20-29”	20-29”
Rated Voltage	48V	48V
Rated Power	350-1000W	350-1000W
Max Torque	80N.m	80N.m
Throttle	Optional	Optional
Reduction Ratio	1:5	1:5
Speed Signals	1/6	1/6
Pole-pairs	10	10
Color	Black	Black
Weight	5.0KG	5.0KG

Mounting & Certification

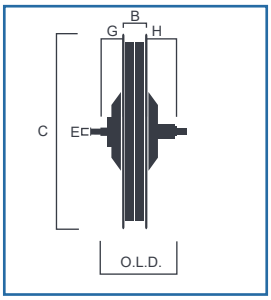
Brake	Disk	Disk
Sprocket	7S	7S
O.L.D	175mm	190mm
Cabling Route	Shaft Side(L)	Shaft Side(L)
Waterproof	IP65	IP65
Certification	RoHS/CE	RoHS/CE

Motor
For Fat-bike



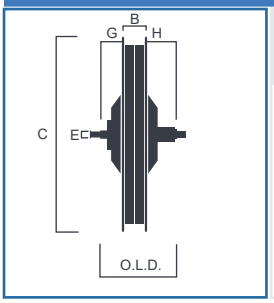
	DM04	H1000	H1000R-T
			
Dimension			
A	122.5mm	123.3mm	123.3mm
B	45mm	71mm	71mm
C	250mm	186mm	186mm
D	240mm	172mm	172mm
E	M14*1.5	M14*1.5	M14*1.5
F	0.8mm	13mm	4.8mm
G	15.25mm	10.5mm	15.25mm
H	37.2mm	1.7mm	36.4mm
WL	87.5mm	67.75mm	82.6mm
WR	86.7mm	54.75mm	87.6mm
Technical Data			
Mounting Position	Rear	Front	Rear
Wheel Size	20-26”	20-26”	20-26”
Rated Voltage	72V	52V-60V	52V-60V
Rated Power	3000W	1500W	1500W
Max Torque	120N.m	120N.m	120N.m
Thottle	Optional	Optional	Optional
Reduction Ratio	-	1:5	1:5
Speed Signals	-	1/6	1/6
Pole-pairs	26	10	10
Color	Black	Black	Black
Weight	9.0KG	6.0KG	6.2KG
Mounting & Certification			
Brake	Disk	Disk	Disk
Sprocket	7S	-	7S
O.L.D	175mm	135mm	175mm
Cable Routing	Shaft Side(L)	Shaft Side(L)	Shaft Side(L)
Waterproof	IP65	IP65	IP65
Certification	RoHS/CE	RoHS/CE	RoHS/CE

Motor With Wheel



	H500R.W20	H750R.W20.1	H750R.W20.2	H750R.W20.3
				
Dimension				
B	24mm	25mm	46mm	70mm
C	420mm	420mm	420mm	420mm
E	M12*1.25	M12*1.25	M12*1.25	M12*1.25
G	15.25mm	15.25mm	15.25mm	15.25mm
H	42.55mm	42.55mm	45.75mm	45.75mm
Technical Data				
Mounting Position	Rear	Rear	Rear	Rear
Wheel Size	20”	20”	20”	20”
Rated Voltage	36/48V	36/48V	48V	48V
Rated Power	250-350W	350-500W	350-750W	350-750W
Max Torque	40N.m	50N.m	65N.m	65N.m
Throttle	Optional	Optional	Optional	Optional
Reduction Ratio	1:4.4	1:5	1:5	1:5
Speed Signals	1/6	1/6	1/6	1/6
Pole-pairs	10	10	10	10
Color	Black	Black	Black	Black
Weight	4.0KG	4.6KG	6.5KG	6.9KG
Mounting & Certification				
Brake	Disk	Disk	Disk	Disk
Sprocket	7S	7S	7S	7S
O.L.D	138mm	138mm	175mm	175mm
Cabling Route	Through Shaft(R)	Through Shaft(R)	Shaft Side(L)	Shaft Side(L)
Waterproof	IP65	IP65	IP65	IP65
Certification	RoHS/CE	RoHS/CE	RoHS/CE	RoHS/CE

Motor With Wheel







Dimension

	G250.W12	G250.RW12
B	25mm	25mm
C	218mm	218mm
E	M12*1.25	M12*1.25
G	10.5mm	15.25mm
H	11.25mm	20.5mm

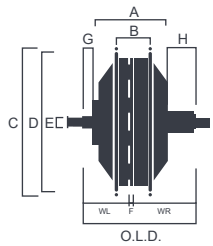
Technical Data

Mounting Position	Front	Rear
Wheel Size	12”	12”
Rated Voltage	36/48V	36/48V
Rated Power	250-350W	250-350W
Max Torque	30N.m	30N.m
Throttle	Optional	Optional
Reduction Ratio	1:8.6	1:8.6
Speed Signals	1/6	1/6
Pole-pairs	8	8
Color	Black	Black
Weight	2.6KG	2.6KG

Mounting & Certification

Brake	Disk	Disk
Sprocket	N/A	N/A
O.L.D	104mm	120mm
Cabling Route	Left	Left
Waterproof	IP65	IP65
Certification	RoHS/CE	RoHS/CE

Motor Integrated



	Controller & PAS Sensor Built-in 11S Cassette	Controller & PAS Sensor Built-in Belt Drive	PAS Sensor Built-in 10S Cassette	Torque Sensor Built-in 10S Cassette
	G250Y	G350Y-BD	G250S	G250T
				
Dimension				
A	89.3mm	91.2mm	75.3mm	80.8mm
B	47mm	47mm	42mm	42mm
C	124mm	124mm	124mm	124mm
D	112mm	112mm	112mm	112mm
E	M12*1.25	M12*1.25	M12*1.25	M12*1.25
F	7.85mm	7.85mm	9.25mm	9.75mm
G	15.25mm	15.25mm	15.25mm	15.25mm
H	43.45mm	41.55mm	46.45mm	41.95mm
WL	66.15mm	66.15mm	59.25mm	59.25mm
WR	74mm	74mm	68.5mm	69mm
Technical Data				
Mounting Position	Rear	Rear	Rear	Rear
Wheel Size	20-29”	20-29”	20-29”	26-29”
Rated Voltage	36V	36V	36/48V	36V
Rated Power	250W	250-350W	250W	250W
Max Torque	30N.m	35N.m	35N.m	35N.m
Throttle	N/A	N/A	N/A	N/A
Reduction Ratio	1:12.5	1:12.5	1:12.5	1:12.5
Speed Signals	1/6	1/6	1/6	1/6
Pole-pairs	8	8	8	8
Color	Black/Silver	Black/Silver	Black/Silver	Black/Silver
Weight	2.1KG	2.2KG	2.0KG	1.95KG
Mounting & Certification				
Brake	V/Disk	V/Disk	V/Disk	V/Disk
Sprocket	11S	11S	11S	10S
O.L.D	148mm	148mm	135mm	135mm
Cabling Route	Shaft Side(L)	Shaft Side(L)	Shaft Side(L)	Shaft Side(L)
Spoke Spec.	36 Holes	36 Holes	36 Holes	36 Holes
Waterproof	IP65	IP65	IP65	IP65
Certification	RoHS/CE	RoHS/CE	RoHS/CE	RoHS/CE

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UNITEK
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