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TECHNOLOGY

UNITEK
— 2024 —

CERTIFICATES

SGS

Verification Report
No: SIVE2201001801 Date: 20 Aug 2022 Page: 1 of 11
Client Name: Unitek Drive System (Suzhou) Co., Ltd
Client Address: Level 5, Block 3 A, Tagging Road 10, Suzhou, China

SGS No.: SPED-04000-1412
Date of Issue: 2022/08/20
Verification Period: 20 Aug 2022 - 27 Aug 2022
Verification Requested: IPW reference to IEC 61195-2016 and IEC 60335-1:2017
Verification Report No.: SIVE2201001801
Verification Conclusion: Based on the verification results of the submitted samples, the models of Unit, Motor, Cartridge, Inverter and Controller, are certified to CE Marking in accordance with IEC 61195-2016 and IEC 60335-1:2017. The above samples and information were provided by the client.

Report for and behalf of SGS-CTE (Suzhou) Technical Services (Shanghai) Co., Ltd



SGS

验证报告
报告号: SIVE2201001801 日期: 2022年8月20日 页次: 1/11
客户名称: 苏州优尼科驱动系统有限公司
客户地址: 江苏省苏州市相城区元和街道塔戈路10号5楼3A室

SGS 编号: SPED-04000-1412
发证日期: 2022年8月20日
验证日期: 2022年8月20日 - 2022年8月27日
验证请求: IPW 参考 IEC 61195-2016 和 IEC 60335-1:2017
验证报告编号: SIVE2201001801
验证结论: 基于提交的样品验证结果, 按照 IEC 61195-2016 和 IEC 60335-1:2017 标准, 客户提供的单元、电机、驱动器、控制器等样品符合 CE 认证要求。以上样品和信息均由客户提供。

报告为客户和 SGS-CTE (苏州) 技术服务(上海)有限公司



SGS

Verification Report
No: SIVE2201001802 Date: 20 Aug 2022 Page: 1 of 14
Client Name: Unitek Drive System (Suzhou) Co., Ltd
Client Address: Level 5, Block 3 A, Tagging Road 10, Suzhou, China

SGS No.: SPED-04000-1412
Date of Issue: 2022/08/20
Verification Period: 20 Aug 2022 - 27 Aug 2022
Verification Requested: IPW reference to IEC 61195-2016 and IEC 60335-1:2017
Verification Report No.: SIVE2201001802
Verification Conclusion: Based on the verification results of the submitted samples, the models of Unit, Motor, Cartridge, Inverter and Controller, are certified to CE Marking in accordance with IEC 61195-2016 and IEC 60335-1:2017. The above samples and information were provided by the client.

Report for and behalf of SGS-CTE (Suzhou) Technical Services (Shanghai) Co., Ltd



SGS

验证报告
报告号: SIVE2201001802 日期: 2022年8月20日 页次: 1/14
客户名称: 苏州优尼科驱动系统有限公司
客户地址: 江苏省苏州市相城区元和街道塔戈路10号5楼3A室

SGS 编号: SPED-04000-1412
发证日期: 2022年8月20日
验证日期: 2022年8月20日 - 2022年8月27日
验证请求: IPW 参考 IEC 61195-2016 和 IEC 60335-1:2017
验证报告编号: SIVE2201001802
验证结论: 基于提交的样品验证结果, 按照 IEC 61195-2016 和 IEC 60335-1:2017 标准, 客户提供的单元、电机、驱动器、控制器等样品符合 CE 认证要求。以上样品和信息均由客户提供。

报告为客户和 SGS-CTE (苏州) 技术服务(上海)有限公司



SGS Compliance Certification Services (Kunshan) Inc.

VERIFICATION OF COMPLIANCE
Verification No.: HKSD220301901802
Applicant: Unitek Drive System (Suzhou) Co., Ltd
Address of Applicant: Level 5, Block 3 A, Tagging Road 10, Suzhou, China
Product Designator: Motor
Model No.: K8555-02208-02500-03000
Sufficient samples of the product have been submitted for an assessment with Test Results: CE-EMC 1108-0-1-2019
At Request of the Client: CE-EMC 1108-0-1-2019
This Report Number(s): HKSD220301901802



SGS Compliance Certification Services (Kunshan) Inc.

TEST REPORT
Application No.: HKSD220301901802
Applicant: Unitek Drive System (Suzhou) Co., Ltd
Address of Applicant: Level 5, Block 3 A, Tagging Road 10, Suzhou, China
Manufacturer: Unitek Drive System (Suzhou) Co., Ltd
Factory: Unitek Drive System (Suzhou) Co., Ltd
Address of Factory: Level 5, Block 3 A, Tagging Road 10, Suzhou, China
Equipment Under Test (EUT): Motor
Model No.: K8555-02208-02500-03000
Description: Please refer to number 2 of this report which indicates which motor was tested and which motor was electrically similar.
Date of Receipt: 2022-08-22
Date of Test: 2022-08-22
Test Result: Pass
The test equipment used for this report complies with the standards specified above.



SGS Compliance Certification Services (Kunshan) Inc.

VERIFICATION OF COMPLIANCE
Verification No.: HKSD220301901802
Applicant: Unitek Drive System (Suzhou) Co., Ltd
Address of Applicant: Level 5, Block 3 A, Tagging Road 10, Suzhou, China
Product Designator: Motor
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SGS Compliance Certification Services (Kunshan) Inc.

TEST REPORT
Application No.: HKSD220301901802
Applicant: Unitek Drive System (Suzhou) Co., Ltd
Address of Applicant: Level 5, Block 3 A, Tagging Road 10, Suzhou, China
Manufacturer: Unitek Drive System (Suzhou) Co., Ltd
Factory: Unitek Drive System (Suzhou) Co., Ltd
Address of Factory: Level 5, Block 3 A, Tagging Road 10, Suzhou, China
Equipment Under Test (EUT): Motor
Model No.: K8555-02208-02500-03000
Description: Please refer to number 2 of this report which indicates which motor was tested, and which motor was electrically similar.
Date of Receipt: 2022-08-22
Date of Test: 2022-08-22
Test Result: Pass
The test equipment used for this report complies with the standards specified above.



Test Report
No.: T3.300.21.10002.01
Date: 2021-03-19
Applicant: UNITEK DRIVE SYSTEM (SUZHOU) CO., LTD
Address: LEVEL 5, BLOCK 3 A, TAGGING ROAD 10, SUZHOU, CHINA
Product Name: Motor
Model No.: K8555-02208-02500-03000
Manufacturer: Unitek Drive System (Suzhou) Co., Ltd
Date of Issuing: 2021-03-19 (2021-04-01)
Remarks: The sample was tested with the equipment and identified tests to see what test results were obtained.
Test Basis: EN 15196-2:2017, CEEMC standard power assisted bicycle (EPAC) Clause 4.2.14 Part 4
Member's name (signature):
TUV SUD
The TÜV SÜD Certification and Testing (China) Co., Ltd. Suzhou Branch (TUV SUD)
Prepared by: [Signature]
Reviewed by: [Signature]
Authorized by: [Signature]

Test Report
Report No.: ZCCTC1800010001 Issue Date: 06, 2020 Page 1 of 1
Applicant: Unitek Drive System (Suzhou) Co., Ltd
Address: Room 304, Block 3A, 10 Tagging Road, Suzhou, China
Sample Name: Motor
Model No.: K8555-02208-02500-03000
Description: Please refer to number 2 of this report which indicates which motor was tested and which motor was electrically similar.
Date of Receipt: 2020-06-18
Date of Test: 2020-06-18
Test Result: Pass
The test equipment used for this report complies with the standards specified above.

ISBT S.r.l. Unipersonale
CERTIFICATE
Certificat Conformitativ Conformitativ - Conformitativ - Conformitativ
Applicant: Unitek Drive System (Suzhou) Co., Ltd
Address: Level 5, Block 3 A, Tagging Road 10, Suzhou, China
Model No.: K8555-02208-02500-03000
Description: Please refer to number 2 of this report which indicates which motor was tested, and which motor was electrically similar.

Technical Construction File
Type of Equipment: Speed Motor
Model No.: K8555-02208-02500-03000
Issued Date: 2021-08-19
Brand Name/Trade mark: [None]
Compliance: CE-EMC 1108-0-1-2019
Member(s): UNITEK DRIVE SYSTEM (SUZHOU) CO., LTD
Issued by: TÜV SÜD

QMS CERTIFICATE OF REGISTRATION
Certificate number: 01202200010
UK Quality Institute Ltd Management
Unitek Drive System (Suzhou) Co., Ltd
Address: Room 304, Block 3 A, Tagging Road 10, Suzhou, China
GB/T19001-2016/ISO9001:2015
Sales of Electric Bicycle Motors (Exporting Only)
Issue Date: 2022-08-31 Expiry Date: 2023-08-31

质量管理体系认证证书
证书编号: 01202200010
北京中质认证服务有限公司
Unitek Drive System (Suzhou) Co., Ltd
地址: 江苏省苏州市相城区元和街道塔戈路10号5楼3A室
GB/T19001-2016/ISO9001:2015
电动自行车电机销售 (仅出口)
发证日期: 2022年08月31日 有效期至: 2023年08月31日

商标注册证
第 4732436 号
尤尼科
核定使用商品/服务项目 (国际分类: 12)
地址: 江苏省苏州市相城区元和街道塔戈路10号5楼3A室
注册人地址: 江苏省苏州市相城区元和街道塔戈路10号5楼3A室 (注册地址与经营地址一致)
注册日期: 2022年07月14日 有效期至: 2032年07月13日
发证机关: [Signature]

实用新型专利证书
证书号: 10264203
发明创造名称: 一种电动自行车电机控制电路
发明人: 陶良波
专利号: ZL 2020 1116800.7
申请日期: 2020年02月01日
公告日期: 2020年04月08日
地址: 江苏省苏州市相城区元和街道塔戈路10号5楼3A室
专利权人: 苏州优尼科驱动系统有限公司
专利权代理机构: 苏州工业园区知识产权保护中心
专利申请人: 苏州优尼科驱动系统有限公司, 陶良波, 陶立, 陶立, 陶立, 陶立, 陶立, 陶立
专利代理人: 陶立, 陶立, 陶立, 陶立, 陶立, 陶立, 陶立

ABOUT US

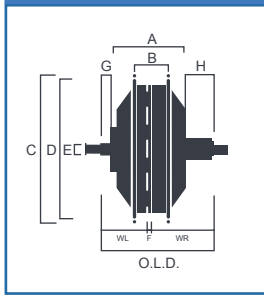
尤尼科电驱动系统有限公司，位于中国苏州。我们致力于打造可靠，高质量的动力传动系统，为各种类型的电动助力车提供动力支持，并提供集研发，制造和服务于一体的全套解决方案。我们的团队擅于发掘市场趋势，凭借在电动助力车行业超过15年的经验以及丰富的技术积累，在确保产品可靠性和稳定性的前提下，勇于创新，不断开拓。

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



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

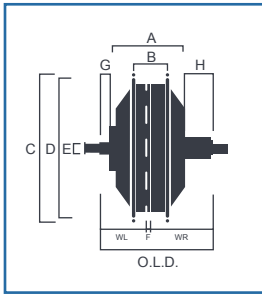
Technical Data

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	1.5KG	2.0KG	1.95KG	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

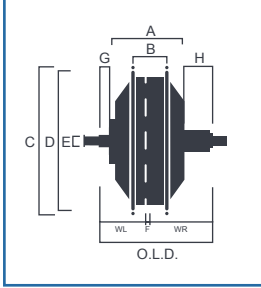
Technical Data

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	2.0KG	1.8KG	2.0KG	2.0KG

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

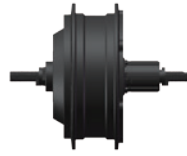
Motor For E-bike



H250R-T



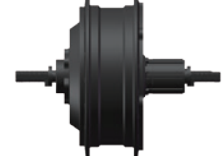
H250R-CA



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

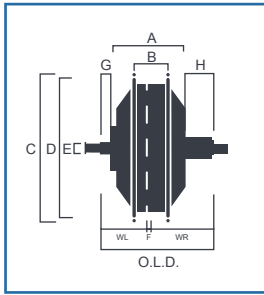
Technical Data

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	2.8KG	3.0KG	3.5KG	3.7KG

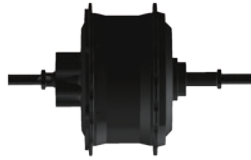
Mounting & Certification

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

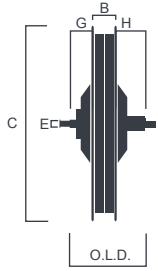
Technical Data

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/Silver	Black/Silver
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 With Wheel



H500R.W20



H750R.W20.1



H750R.W20.2



H750R.W20.3



Dimension

	H500R.W20	H750R.W20.1	H750R.W20.2	H750R.W20.3
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

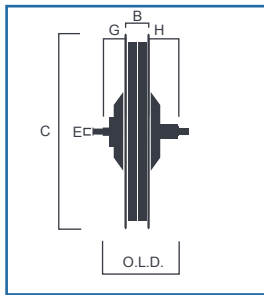
Technical Data

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



G250.W12



G250.RW12



Dimension

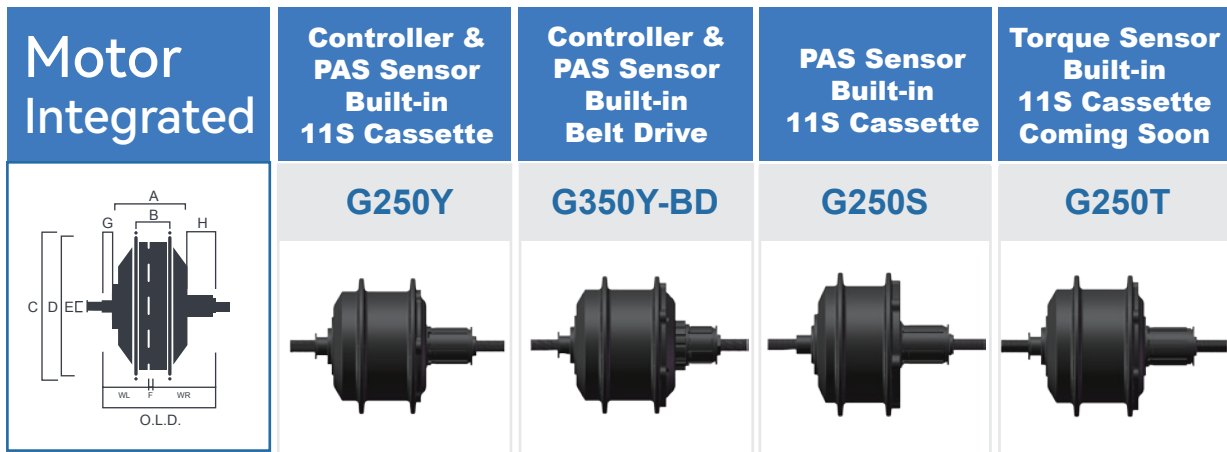
	G250.W12	G250.RW12
B	25mm	25mm
C	218mm	218mm
E	M12*1.25	M12*1.25
G	10.5mm	15.25mm
H	11.25mm	20.5mm

Technical Data

	G250.W12	G250.RW12
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

	G250.W12	G250.RW12
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



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

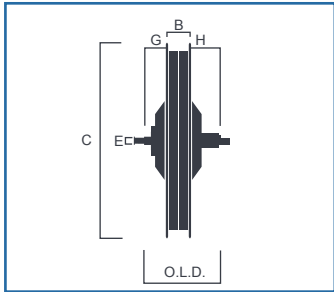
Technical Data

Mounting Position	Rear	Rear	Rear	Rear
Wheel Size	20-29"	20-29"	20-29"	20-29"
Rated Voltage	36V	36V	36/48V	36/48V
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	2.0KG

Mounting & Certification

Brake	V/Disk	V/Disk	V/Disk	V/Disk
Sprocket	11S	11S	11S	11S
O.L.D	148mm	148mm	137mm	138mm
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-Motorcycle







Technical Data

Mounting Position	Rear	Rear	Rear
Wheel Size	MT3.0*10	MT3.5*12	MT3.5*12
Rated Voltage	48V-72V	48V-72V	60V/72V
Rated Power	1200W	1200W	2500W
Max Torque	110N.m	140N.m	180N.m

Mounting & Certification

Brake	Disk	Disk	Disk
O.L.D	200mm	220mm	220mm
IP Grade	IP65	IP65	IP65

-  Block 2-4, Tingdong Rd 55, 215007 Suzhou, China
-  info@unitek-drivetrain.com
-  www.unitek-drivetrain.com
-  +86-512-6683-7667

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