

The following sample(s) was/were submitted and identified by/on behalf of the client as:

Sample Description : ELECTRIC POWER BICYCLE  
 Style No. : E-BRO  
 Buyer : STRADA MOBILITE TEKNOLOJILERI AS.  
 Manufacturer :   
 Supplier :

\*\*\*\*\*

Sample Receiving Date : APR. 15, 2026  
 Testing Period : APR. 15, 2026 TO MAY 14, 2026  
 Testing Performed : Follow selected test(s) as requested by client.

|   | Test Requirement                                                                    | Conclusion |
|---|-------------------------------------------------------------------------------------|------------|
| 1 | Cycles - Electrically power assisted cycles - EPAC Bicycles (EN 15194:2017+A1:2023) | Pass       |

\*\*\* FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE(S) \*\*\*

SGS-CSTC Standards Technical Services (Changzhou) Co., Ltd.

China

*Tom Tang*

Tom Tang  
 Authorized Signatory

Scan to see the report



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## Test Results:

### 1. Cycles - Electrically power assisted cycles - EPAC Bicycles (EN 15194:2017+A1:2023)

1. This European Standard applies to EPAC bicycles for private and commercial use with exception of EPAC intended for hire from unattended station.

This European Standard is intended to cover all common significant hazards, hazardous situations and events (see Clause 4) of electrically power assisted bicycles, when used as intended and under condition of misuse that are reasonably foreseeable by the manufacturer.

This European Standard is intended to cover electrically power assisted bicycles of a type which have a maximum continuous rated power of 0,25 kW, of which the output is progressively reduced and finally cut off as the EPAC reaches a speed of 25 km/h, or sooner, if the cyclist stops pedalling.

This European Standard specifies requirements and test methods for engine power management systems, electrical circuits including the charging system for the design and assembly of electrically power assisted bicycles and sub-assemblies for systems having a rated voltage up to and including 48 V d.c. or integrated battery charger with a nominal 230 V a.c. input.

This European Standard specifies safety and safety related performance requirements for the design, assembly, and testing of EPAC bicycles and subassemblies intended for use on public roads, and lays down guidelines for instructions on the use and care of such bicycles.

This European Standard applies to EPAC bicycles that have a maximum saddle height of 635 mm or more and that are intended for use on public roads.

This European Standard is not applicable to EPACs which are manufactured before the date of its publication as EN.

2. Number of tested sample: 1 set of fully assembled bicycle

3. Sample description:

Maximum saddle height: 1003 mm

Wheels: 20"x4"

Speed: 7 speeds

Brakes: Disc brakes were equipped on front and rear.

Fork: Suspension

Frame: Rigid



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Reflectors: Colorless reflector on front, red reflector on rear, yellow reflectors on pedals, yellow reflectors on wheels .

Others: Quick-released device was equipped on seat post and front, luggage carriers was equipped on rear, bell was equipped on handlebar

Electric motor maximum continuous rated power: 250w

Cut off speed: 25km/h

Battery output voltage: 36 VDC

Battery charger input voltage: 100-240 VAC

4. Test details see below table:

| Clause                                                  | Test Description                                                                                                                                                                                                                                                                                                                                            | Result                                                  |
|---------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|
| <b>4 Safety requirements and/or protective measures</b> |                                                                                                                                                                                                                                                                                                                                                             |                                                         |
| 4.1 General                                             | EPAC shall be designed according to the principles of en ISO 12100 for relevant but not significant hazards, which are not dealt with by this document. It includes evaluation of such risks for all relevant components.<br><br>Means shall be provided to the user to prevent an unauthorized use of the epac e.g. Key, locks, electronic control device. | Pass<br>(See Risk assessment and Risk reduction report) |
| <b>4.2 Electrical requirements</b>                      |                                                                                                                                                                                                                                                                                                                                                             |                                                         |
| 4.2.1                                                   | Electric circuit                                                                                                                                                                                                                                                                                                                                            | Pass                                                    |
| 4.2.2                                                   | Controls and symbols                                                                                                                                                                                                                                                                                                                                        | Pass                                                    |
| 4.2.3                                                   | Batteries                                                                                                                                                                                                                                                                                                                                                   | Pass                                                    |
| 4.2.4                                                   | Batteries charger                                                                                                                                                                                                                                                                                                                                           | Pass                                                    |
| 4.2.5                                                   | Electric cables and connections                                                                                                                                                                                                                                                                                                                             | Pass                                                    |
| 4.2.6                                                   | Wiring                                                                                                                                                                                                                                                                                                                                                      | Pass                                                    |
| 4.2.7                                                   | Power cables and conduits                                                                                                                                                                                                                                                                                                                                   | Pass                                                    |
| 4.2.8                                                   | External and internal electrical connections                                                                                                                                                                                                                                                                                                                | Pass                                                    |
| 4.2.9                                                   | Moisture resistance                                                                                                                                                                                                                                                                                                                                         | Pass                                                    |
| 4.2.10                                                  | Mechanical strength test                                                                                                                                                                                                                                                                                                                                    | Pass                                                    |
| 4.2.11                                                  | Maximum speed for which the electric motor give assistance                                                                                                                                                                                                                                                                                                  | Pass<br>24.9 km/h                                       |



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| Clause  | Test Description                                            | Result                                                                                                                                                                                                            |
|---------|-------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|         |                                                             | 20*4.0" wheel(s)                                                                                                                                                                                                  |
| 4.2.12  | Start-up assistance mode                                    | Pass                                                                                                                                                                                                              |
| 4.2.13  | Power management                                            | Pass                                                                                                                                                                                                              |
| 4.2.14  | Maximum power measurement – measurement at the engine shaft | Pass<br>Measured directly at the shaft of the electronic motor.<br>Considered the measurement uncertainty and transmission losses, actual measure value is 208.4W , the correction value of max. power is 180.4W. |
| 4.2.15  | Electro Magnetic compatibility                              | Pass                                                                                                                                                                                                              |
| 4.2.16  | Failure mode                                                | Pass                                                                                                                                                                                                              |
| 4.2.17  | Anti-tampering measure                                      | Pass                                                                                                                                                                                                              |
| 4.3     | Mechanical requirements                                     |                                                                                                                                                                                                                   |
| 4.3.1   | General                                                     |                                                                                                                                                                                                                   |
| 4.3.2   | Sharp edges                                                 | Pass                                                                                                                                                                                                              |
| 4.3.3   | Security and strength of safety-related fastener            |                                                                                                                                                                                                                   |
| 4.3.3.1 | Security of screws                                          | Pass                                                                                                                                                                                                              |
| 4.3.3.2 | Minimum failure torque                                      | Pass                                                                                                                                                                                                              |
| 4.3.3.3 | Folding bicycles mechanism                                  | Pass                                                                                                                                                                                                              |
| 4.3.4   | Protrusions                                                 | Pass                                                                                                                                                                                                              |
| 4.3.5   | Brakes                                                      |                                                                                                                                                                                                                   |
| 4.3.5.1 | Braking-systems                                             | Pass                                                                                                                                                                                                              |



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| Clause    | Test Description                                       | Result |
|-----------|--------------------------------------------------------|--------|
| 4.3.5.2   | Hand-operated brakes                                   |        |
| 4.3.5.2.1 | Brake-lever position                                   | Pass   |
| 4.3.5.2.2 | Brake-lever grip dimensions                            | Pass   |
| 4.3.5.3   | Attachment of brake assembly and cable requirements    | Pass   |
| 4.3.5.4   | Brake-levers – position of applied force               | Pass   |
| 4.3.5.5   | Brake-block and brake-pad assemblies – safety test     | Pass   |
| 4.3.5.6   | Brake adjustment                                       | Pass   |
| 4.3.5.7   | Hand-operated braking-system – strength test           | Pass   |
| 4.3.5.8   | Back-pedal braking system – strength test              | N/A    |
| 4.3.5.9   | Braking performance                                    | Pass   |
| 4.3.5.10  | Brakes – heat-resistance test                          | Pass   |
| 4.3.5.11  | Back-pedal brake linearity test                        | N/A    |
| 4.3.6     | Steering                                               |        |
| 4.3.6.1   | Handlebar – dimensions                                 | Pass   |
| 4.3.6.2   | Handlebar grips and plugs                              | Pass   |
| 4.3.6.3   | Handlebar stem – insertion-depth mark or positive stop | Pass   |
| 4.3.6.4   | Handlebar stem to fork steerer – clamping requirements | N/A    |
| 4.3.6.5   | Steering stability                                     | Pass   |
| 4.3.6.6   | Steering assembly – static strength and safety tests   |        |
| 4.3.6.6.1 | Handlebar and stem assembly – lateral bending test     | Pass   |
| 4.3.6.6.2 | Handlebar-stem – forward bending test                  | Pass   |
| 4.3.6.6.3 | Handlebar to handlebar-stem – torsional safety test    | Pass   |
| 4.3.6.6.4 | Handlebar-stem to fork steerer – torsional safety test | Pass   |
| 4.3.6.6.5 | Bar-end to handlebar – torsional safety test           | N/A    |
| 4.3.6.7   | Handlebar and stem assembly – fatigue test             | Pass   |
| 4.3.7     | Frames                                                 |        |
| 4.3.7.1   | Suspension-frames – special requirement                | N/A    |



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| Clause   | Test Description                                                                 | Result |
|----------|----------------------------------------------------------------------------------|--------|
| 4.3.7.2  | Frame – impact test (falling mass)                                               | Pass   |
| 4.3.7.3  | Frame and front fork assembly – impact test (falling frame)                      | Pass   |
| 4.3.7.4  | Frame – fatigue test with pedalling forces                                       | Pass   |
| 4.3.7.5  | Frame – fatigue test with horizontal forces                                      | Pass   |
| 4.3.7.6  | Frame – fatigue test with a vertical force                                       | Pass   |
| 4.3.8    | Front fork                                                                       |        |
| 4.3.8.1  | General                                                                          | Pass   |
| 4.3.8.2  | Means of location of the axle and wheel retention                                | Pass   |
| 4.3.8.3  | Suspension-forks – special requirements                                          | Pass   |
| 4.3.8.4  | Front fork – static bending test                                                 | Pass   |
| 4.3.8.5  | Front fork – rearward impact test                                                | Pass   |
| 4.3.8.6  | Front fork – bending fatigue test plus rearward impact test                      | Pass   |
| 4.3.8.7  | Forks intended for use with hub- or disc-brakes                                  | Pass   |
| 4.3.8.8  | Tensile test for a non-welded fork                                               | N/A    |
| 4.3.9    | Wheels and wheel/tyre assembly                                                   |        |
| 4.3.9.1  | Wheels/tyre assembly – concentricity tolerance and lateral                       | Pass   |
| 4.3.9.2  | Wheel/tyre assembly – clearance                                                  | Pass   |
| 4.3.9.3  | Wheel/tyre assembly – static strength test                                       | Pass   |
| 4.3.9.4  | Wheels – wheel retention                                                         | Pass   |
| 4.3.9.5  | Wheels – quick-release devices – operating features                              | Pass   |
| 4.3.10   | Rims, tyres and tubes                                                            |        |
| 4.3.10.1 | Non-pneumatic tyres are excluded from the requirements of 4.3.10.2 and 4.3.10.3. |        |
| 4.3.10.2 | Tyre inflation pressure                                                          | Pass   |
| 4.3.10.3 | Tyre and rim compatibility                                                       | Pass   |
| 4.3.10.4 | Rim-wear                                                                         | N/A    |
| 4.3.10.5 | Greenhouse effect test for composite wheels                                      | N/A    |
| 4.3.11   | Front mudguard                                                                   | Pass   |



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| Clause   | Test Description                                                                                                                                                                                                                                                                                                                                                                | Result |
|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| 4.3.12   | Pedals and pedal/crank drive system                                                                                                                                                                                                                                                                                                                                             |        |
| 4.3.12.1 | Pedal tread                                                                                                                                                                                                                                                                                                                                                                     | Pass   |
| 4.3.12.2 | Pedal clearance                                                                                                                                                                                                                                                                                                                                                                 | Pass   |
| 4.3.12.3 | Pedal – static strength test                                                                                                                                                                                                                                                                                                                                                    | Pass   |
| 4.3.12.4 | Pedal – impact test                                                                                                                                                                                                                                                                                                                                                             | Pass   |
| 4.3.12.5 | Pedal – dynamic durability test                                                                                                                                                                                                                                                                                                                                                 | Pass   |
| 4.3.12.6 | Drive-system – static strength test                                                                                                                                                                                                                                                                                                                                             | Pass   |
| 4.3.12.7 | Crank assembly – fatigue test                                                                                                                                                                                                                                                                                                                                                   | Pass   |
| 4.3.13   | Drive-chain and drive belt                                                                                                                                                                                                                                                                                                                                                      |        |
| 4.3.13.1 | Drive-chain                                                                                                                                                                                                                                                                                                                                                                     | Pass   |
| 4.3.13.2 | Drive belt                                                                                                                                                                                                                                                                                                                                                                      | N/A    |
| 4.3.14   | Chain-wheel and belt-drive protective device                                                                                                                                                                                                                                                                                                                                    |        |
| 4.3.14.1 | Requirement<br>EPAC shall be equipped with one of the following;<br>a) A chain wheel disc or drive pulley disk which conforms to 4.3.14.2; or<br>b) A chain and drive belt protective device which conforms to 4.3.14.3; or<br>c) Where fitted with positive foot-retention devices on the pedals, a combined front gear-change guide which conforms to 4.3.14.4 shall be used. |        |
| 4.3.14.2 | Chain-wheel disc and drive pulley disc diameter                                                                                                                                                                                                                                                                                                                                 | Pass   |
| 4.3.14.3 | Chain and drive belt protective device                                                                                                                                                                                                                                                                                                                                          | N/A    |
| 4.3.14.4 | Combined front gear-change guide                                                                                                                                                                                                                                                                                                                                                | N/A    |
| 4.3.15   | Saddles and seat-posts                                                                                                                                                                                                                                                                                                                                                          |        |
| 4.3.15.1 | Limiting dimensions                                                                                                                                                                                                                                                                                                                                                             | Pass   |
| 4.3.15.2 | Seat-post – insertion-depth mark or positive stop                                                                                                                                                                                                                                                                                                                               | Pass   |
| 4.3.15.3 | Saddle/seat-post – safety test                                                                                                                                                                                                                                                                                                                                                  | Pass   |
| 4.3.15.4 | Saddle – static strength test                                                                                                                                                                                                                                                                                                                                                   | Pass   |
| 4.3.15.5 | Saddle and seat-post clamp – fatigue test                                                                                                                                                                                                                                                                                                                                       | Pass   |
| 4.3.15.6 | Seat-post – fatigue test                                                                                                                                                                                                                                                                                                                                                        | Pass   |



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| Clause   | Test Description                                      | Result             |
|----------|-------------------------------------------------------|--------------------|
| 4.3.16   | Spoke protector                                       | Pass               |
| 4.3.17   | Luggage carriers                                      | Pass               |
| 4.3.18   | Road-test of a fully-assembled EPAC                   | Pass               |
| 4.3.19   | Lighting systems and reflectors                       |                    |
| 4.3.19.1 | General                                               | Pass               |
| 4.3.19.2 | Wiring harness                                        | Pass               |
| 4.3.19.3 | Lighting systems                                      | Pass               |
| 4.3.19.4 | Reflectors                                            | Pass<br>(See Note) |
| 4.3.20   | Warning device                                        | Pass               |
| 4.3.21   | Thermal hazards                                       | Pass               |
| 4.3.22   | Performance levels (PLrs) for control system of EPACs | Pass               |
| 4.4      | List of significant hazards                           | Pass               |
| 5        | Marking, labelling                                    | Pass               |
| 6        | Instruction for use                                   | Pass               |

**Remark:**

The samples differ only in color, therefore the test results were copied from report No.: CZHL250600657901BC, Date: MAR. 09, 2026, Issued by: SGS lab

**Note:**

The sample uses side reflectors different from those specified in the original report, the test reports were submitted by client at time of testing.

(Side reflector: Report No.: 1061.19636 Date: MAY 15, 2025, Issued by: ACT lab)



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## EN ISO 12100:2010

### RISK ASSESSMENT AND RISK REDUCTION ACCORDING TO EN ISO 12100

| BASIC INFORMATION                    |                        |
|--------------------------------------|------------------------|
| Manufacturer Name                    |                        |
| Manufacturer Address                 |                        |
| Product Name                         | Electric Power Bicycle |
| Product Style No.                    | E-BRO                  |
| Rating and Principal Characteristics | 36VDC 250W             |
| Method of evaluation                 | EN ISO 12100:2010      |
| Issue Date:                          | 14 May, 2026           |

Donna Gu  
Hardline SBU Certification Manager  
轻工产品实验室认证经理  
SGS-CSTC Standards Technical Services Co., Ltd.  
通标标准技术服务(上海)有限公司

Report No.: CZHL2604005443BC

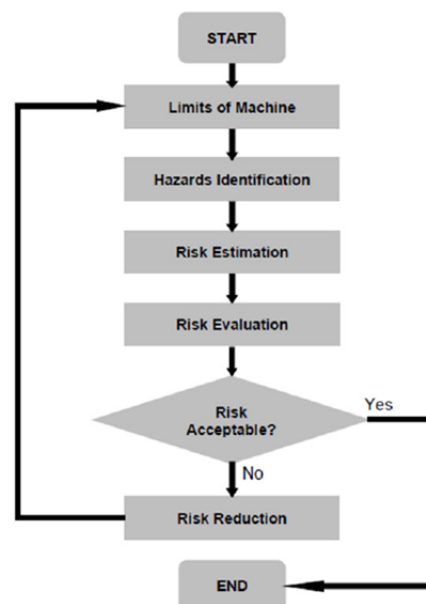
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#### Method of Risk Assessment

To implement risk assessment and risk reduction the designer shall take the following actions, in the order given (see Figure at right):

- Determine the limits of the machinery, which include the intended use and any reasonably foreseeable misuse thereof
  - Identify the hazards and associated hazardous situations
  - Estimate the risk for each identified hazard and hazardous situation
  - Evaluate the risk and take decisions about the need for risk reduction. The final step is related to risk reduction
  - Eliminate the hazard or reduce the risk associated with the hazard by means of protective measures.
- Follow the above steps to analyze the risks associated with machinery.

Risk assessment is always followed where possible risk reduction and iteration of the process can be required to eliminate hazards as far as practicable and to implement protective measures to reduce risks.



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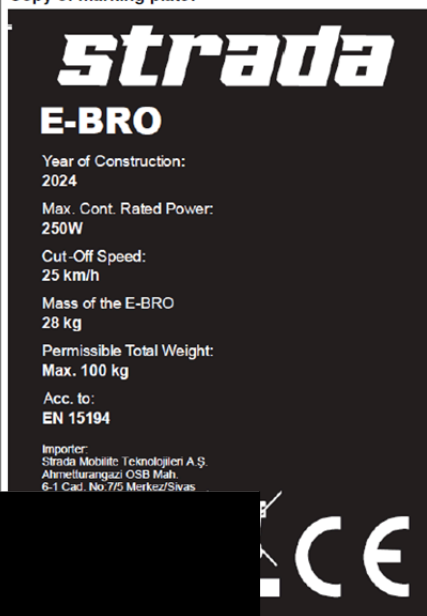
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|                                                                                      |                                                                                                                                                |
|--------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Machinery Information</b>                                                         |                                                                                                                                                |
| Machine:                                                                             | Electric Power Bicycle                                                                                                                         |
| Style No.:                                                                           | E-BRO                                                                                                                                          |
| Cut-off Speed:                                                                       | 25km/h                                                                                                                                         |
| Manufacturer's experience                                                            | Good                                                                                                                                           |
| Known accidents for this type of machinery                                           | No                                                                                                                                             |
| <b>Expected Use and Limits of Use</b>                                                |                                                                                                                                                |
| Machinery is to be used in the following sector                                      | <input type="checkbox"/> Industrial <input type="checkbox"/> non-industrial <input checked="" type="checkbox"/> Domestic                       |
| Machinery is intended to be operated by                                              | <input checked="" type="checkbox"/> Skilled <input checked="" type="checkbox"/> Semi-skilled <input type="checkbox"/> Unskilled                |
| Are there any physical limiting factors?                                             | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                                                                            |
| Anticipated level of training of machinery installer(s)                              | <input checked="" type="checkbox"/> Skilled <input type="checkbox"/> Semi-skilled <input type="checkbox"/> Unskilled                           |
| Anticipated level of training of machinery operator(s)                               | <input checked="" type="checkbox"/> Skilled <input checked="" type="checkbox"/> Semi-skilled <input type="checkbox"/> Unskilled                |
| Anticipated level of training of machinery maintainer(s)                             | <input checked="" type="checkbox"/> Skilled <input type="checkbox"/> Semi-skilled <input type="checkbox"/> Unskilled                           |
| Are there other persons exposed to the machinery hazards? Such as adjacent machines? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                                                                            |
| Will operators be safety trained?                                                    | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                                                                            |
| Are members of the public exposed to the machinery hazards?                          | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                                                                            |
| The machinery uses the following energy sources.                                     | <input type="checkbox"/> Air <input type="checkbox"/> Water <input checked="" type="checkbox"/> Electricity <input type="checkbox"/> Hydraulic |

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**Copy of marking plate:**



**Overall view of machinery:**



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**Risk Identify:**

| No. | Type or group      | Hazard                         | Y                                   | Position                                 | Notes |
|-----|--------------------|--------------------------------|-------------------------------------|------------------------------------------|-------|
| 1   | Mechanical hazards | Being run over                 | <input type="checkbox"/>            |                                          |       |
|     |                    | Being thrown                   | <input type="checkbox"/>            |                                          |       |
|     |                    | Crushing                       | <input checked="" type="checkbox"/> | Near chains and/or gears, battery holder |       |
|     |                    | Cutting or severing            | <input checked="" type="checkbox"/> | Sharp edges/corners, protruding parts.   |       |
|     |                    | Drawing-in or trapping         | <input checked="" type="checkbox"/> | Near chains and/or gears                 |       |
|     |                    | Entanglement                   | <input type="checkbox"/>            |                                          |       |
|     |                    | Friction or abrasion           | <input type="checkbox"/>            |                                          |       |
|     |                    | Impact                         | <input checked="" type="checkbox"/> | Riding the EPAC in high speed            |       |
|     |                    | Injection                      | <input type="checkbox"/>            |                                          |       |
|     |                    | Shearing                       | <input checked="" type="checkbox"/> | Moving parts                             |       |
|     |                    | Slipping, tripping and falling | <input checked="" type="checkbox"/> | Riding the EPAC in high speed            |       |
|     |                    | Stabbing or puncture           | <input type="checkbox"/>            |                                          |       |
| 2   | Electrical hazards | Suffocation                    | <input type="checkbox"/>            |                                          |       |
|     |                    | Burn                           | <input type="checkbox"/>            |                                          |       |
|     |                    | Chemical effects               | <input type="checkbox"/>            |                                          |       |
|     |                    | Effects on medical implants    | <input type="checkbox"/>            |                                          |       |
|     |                    | Electrocution                  | <input type="checkbox"/>            |                                          |       |
|     |                    | Falling, being thrown          | <input type="checkbox"/>            |                                          |       |
|     |                    | Fire                           | <input checked="" type="checkbox"/> | Battery and/or wires short-circuits      |       |
|     |                    | Projection of molten particles | <input type="checkbox"/>            |                                          |       |
|     |                    | Shock                          | <input checked="" type="checkbox"/> | Maintain the electric circuit            |       |

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|   |                    |                                                                                                                                |                                     |                          |  |
|---|--------------------|--------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|--------------------------|--|
|   |                    |                                                                                                                                |                                     | or battery unauthorized. |  |
| 3 | Thermal hazards    | Burn                                                                                                                           | <input checked="" type="checkbox"/> | Hot engine, hot brakes   |  |
|   |                    | Dehydration                                                                                                                    | <input type="checkbox"/>            |                          |  |
|   |                    | Discomfort                                                                                                                     | <input type="checkbox"/>            |                          |  |
|   |                    | Frostbite                                                                                                                      | <input type="checkbox"/>            |                          |  |
|   |                    | Injuries by the radiation of heat sources                                                                                      | <input type="checkbox"/>            |                          |  |
|   |                    | Scald                                                                                                                          | <input checked="" type="checkbox"/> | Hot engine, hot brakes   |  |
| 4 | Noise hazards      | Discomfort                                                                                                                     | <input type="checkbox"/>            |                          |  |
|   |                    | Loss of awareness                                                                                                              | <input type="checkbox"/>            |                          |  |
|   |                    | Loss of balance                                                                                                                | <input type="checkbox"/>            |                          |  |
|   |                    | Permanent hearing loss                                                                                                         | <input type="checkbox"/>            |                          |  |
|   |                    | Stress                                                                                                                         | <input type="checkbox"/>            |                          |  |
|   |                    | Tinnitus                                                                                                                       | <input type="checkbox"/>            |                          |  |
|   |                    | Tiredness                                                                                                                      | <input type="checkbox"/>            |                          |  |
| 5 | Vibration hazards  | Any other (e.g. mechanical, electrical) as a consequence of an interference with speech communication or with acoustic signals | <input type="checkbox"/>            |                          |  |
|   |                    | Discomfort                                                                                                                     | <input type="checkbox"/>            |                          |  |
|   |                    | Low-back morbidity                                                                                                             | <input type="checkbox"/>            |                          |  |
|   |                    | Neurological disorder                                                                                                          | <input type="checkbox"/>            |                          |  |
|   |                    | Osteo-articular disorder                                                                                                       | <input type="checkbox"/>            |                          |  |
|   |                    | Trauma of spine                                                                                                                | <input type="checkbox"/>            |                          |  |
| 6 | Radiation hazards  | Vascular disorder                                                                                                              | <input type="checkbox"/>            |                          |  |
|   |                    | Burn                                                                                                                           | <input type="checkbox"/>            |                          |  |
|   |                    | Damage to eyes and skin                                                                                                        | <input type="checkbox"/>            |                          |  |
|   |                    | Effects on reproductive capability                                                                                             | <input type="checkbox"/>            |                          |  |
|   |                    | Genetic mutation                                                                                                               | <input type="checkbox"/>            |                          |  |
| 7 | Material/substance | Headache, insomnia, etc.                                                                                                       | <input type="checkbox"/>            |                          |  |
|   |                    | Breathing difficulties suffocation                                                                                             | <input type="checkbox"/>            |                          |  |

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|    |                                                                  |                                                                                                                      |                                     |                              |  |
|----|------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|-------------------------------------|------------------------------|--|
|    | hazard                                                           | Cancer                                                                                                               | <input type="checkbox"/>            |                              |  |
|    |                                                                  | Corrosion                                                                                                            | <input type="checkbox"/>            |                              |  |
|    |                                                                  | Effects on reproductive capability                                                                                   | <input type="checkbox"/>            |                              |  |
|    |                                                                  | Explosion                                                                                                            | <input type="checkbox"/>            |                              |  |
|    |                                                                  | Fire                                                                                                                 | <input type="checkbox"/>            |                              |  |
|    |                                                                  | Infection                                                                                                            | <input type="checkbox"/>            |                              |  |
|    |                                                                  | Mutation                                                                                                             | <input type="checkbox"/>            |                              |  |
|    |                                                                  | Poisoning                                                                                                            | <input type="checkbox"/>            |                              |  |
| 8  | Ergonomic hazards                                                | Sensitization                                                                                                        | <input type="checkbox"/>            |                              |  |
|    |                                                                  | Discomfort                                                                                                           | <input type="checkbox"/>            |                              |  |
|    |                                                                  | Fatigue                                                                                                              | <input type="checkbox"/>            |                              |  |
|    |                                                                  | Musculoskeletal disorder                                                                                             | <input type="checkbox"/>            |                              |  |
|    |                                                                  | Stress                                                                                                               | <input type="checkbox"/>            |                              |  |
| 9  | Hazards associated with environment in which the machine is used | Any others (e.g. mechanical, electrical) as a consequence of human error                                             | <input type="checkbox"/>            |                              |  |
|    |                                                                  | Burn                                                                                                                 | <input type="checkbox"/>            |                              |  |
|    |                                                                  | Slight disease                                                                                                       | <input type="checkbox"/>            |                              |  |
|    |                                                                  | Slipping, falling                                                                                                    | <input checked="" type="checkbox"/> | Riding the EPAC on wet road. |  |
|    |                                                                  | Suffocation                                                                                                          | <input type="checkbox"/>            |                              |  |
| 10 | Combination of hazards                                           | Any other as a consequence of the effect caused by the sources of the hazards on the machine or parts of the machine | <input type="checkbox"/>            |                              |  |
|    |                                                                  | e.g. dehydration, loss of awareness, heat stroke                                                                     | <input type="checkbox"/>            |                              |  |

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## Annex I Hazard identification

| Risk assessment (Hazard identification) |                       |                                                    |                                            |                                    |                                                 |                                                                                                        |
|-----------------------------------------|-----------------------|----------------------------------------------------|--------------------------------------------|------------------------------------|-------------------------------------------------|--------------------------------------------------------------------------------------------------------|
| Machine                                 |                       |                                                    |                                            |                                    |                                                 |                                                                                                        |
| Source                                  |                       | Specifications, preliminary design (Actual Sample) |                                            |                                    |                                                 |                                                                                                        |
| Extent                                  |                       | Use phase: setting and operation                   |                                            |                                    |                                                 |                                                                                                        |
| Method                                  |                       | Checklist: ISO 12100:2010 Annex B                  |                                            |                                    |                                                 |                                                                                                        |
| Ref. No.                                | Life cycle            | Task (ISO 12100:2010, Table B.3)                   | Hazard zone                                | Accident scenario                  |                                                 |                                                                                                        |
|                                         |                       |                                                    |                                            | Hazard (ISO 12100:2010, Table B.1) | Hazardous situation (ISO 12100:2010, Table B.3) | Hazardous event (ISO 12100:2010, Table B.4)                                                            |
| 1                                       | Maintenance           | Disassemble/assemble parts                         | Chains/gears/battery holder/folding joints | Mechanical hazards                 | During normal use/During troubleshooting        | Crushing when contact chains and gears while clean or maintain the bicycle or assembly battery holder. |
| 2                                       | Maintenance           | Riding the EPAC                                    | Moving parts                               | Mechanical hazards                 | During normal use                               | Shearing                                                                                               |
| 3                                       | Whole life            | Maintenance                                        | Around the EPAC                            | Mechanical hazards                 | During normal use                               | Cutting or severing due to contact the sharp edge                                                      |
| 4                                       | Operation/Maintenance | Maintenance/Riding the EPAC                        | Chains/gears/wheels                        | Mechanical hazards                 | During normal use/During troubleshooting        | Drawing-in or trapping in this structure.                                                              |
| 5                                       | Operation             | Riding the EPAC                                    | Around the EPAC                            | Mechanical hazards                 | During normal use                               | Impact others and loss of stability during riding electric bicycle in high speed                       |
| 6                                       | Operation             | Riding the EPAC                                    | Around the EPAC                            | Mechanical hazards                 | During normal use                               | Slipping, tripping and falling due to loss of stability from seat                                      |
| 7                                       | Operation             | Riding the EPAC/Charging the                       | Battery/wires                              | Electrical hazards                 | During normal use                               | Fire due to overcurrent and/or over heating                                                            |

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|    |             | EPAC                                    |                          |                    |                        |                                                                                                                          |
|----|-------------|-----------------------------------------|--------------------------|--------------------|------------------------|--------------------------------------------------------------------------------------------------------------------------|
| 8  | Operation   | Riding the EPAC                         | Around the EPAC          | Mechanical hazards | During normal use      | Slipping and falling during riding and/or braking on rainy day.                                                          |
| 9  | Operation   | Riding the EPAC/Charging the EPAC       | Battery/wires            | Thermal hazards    | During normal use      | Burning due to battery/wires touching hot parts                                                                          |
| 10 | Maintenance | Disassemble/assemble parts unauthorized | Electric circuit/Battery | Electrical shock   | During troubleshooting | Electric shock due to unauthorized remove/reinstall/contact power socket of the battery or maintain the electric circuit |

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## Annex II Risk estimation, Risk evaluation and Risk reduction

Each hazards situation is allocated a risk index according to the following matrix:

|                                                                                   |    | Risk index calculation |    |    |    |    |    |
|-----------------------------------------------------------------------------------|----|------------------------|----|----|----|----|----|
|                                                                                   |    | O1                     |    | O2 |    | O3 |    |
|                                                                                   |    | A1                     | A2 | A1 | A2 | A1 | A2 |
| S1                                                                                | F1 | 1                      |    |    |    | 2  |    |
|                                                                                   | F2 | 1                      |    |    |    | 2  |    |
| S2                                                                                | F1 | 2                      |    | 3  |    | 4  |    |
|                                                                                   | F2 | 3                      | 4  | 5  | 6  | 5  | 6  |
| A risk index of 1 or 2 corresponds to the lowest priority of action (priority 3)  |    |                        |    |    |    |    |    |
| A risk index of 3 or 4 corresponds to a medium priority of action (priority 2)    |    |                        |    |    |    |    |    |
| A risk index of 5 or 6 corresponds to the highest priority of action (priority 1) |    |                        |    |    |    |    |    |

**Severity of harm: S**  
S1 slight injury (usually reversible)  
S2 serious injury (usually irreversible, including fatality)

**Probability of occurrence of the hazardous event: O**  
O1 mature technology, proven and recognized in safety application; robustness  
O2 technical failure observed in the two last years;  
O3 technical failure regularly observed (every six months or less); inappropriate human action by an untrained person having less than six months experiences on the work station;  
O4 similar accident observed in the preceding ten years

**Frequency and/or duration of exposure to hazard: F**  
F1 twice or less per work shift or less than 15 min cumulated exposure per work shift  
F2 more than twice per work shift or more than 15 min cumulated exposure per work shift

**Possibility of avoidance or reduction of harm: A**  
A1 possible under some conditions:  
if parts move at a speed less than 0,25 m/s  
And the exposed worker is familiar with the risks and with the indications of a hazardous situation or impending hazardous event; depending on particular conditions (temperature, noise, ergonomics, etc.)  
A2 impossible

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| Risk assessment (risk estimation and risk evaluation) and risk reduction |                                |   |   |   |    |                                                                                                                                                                         |                                        |   |   |   |    |                                 |          |  |
|--------------------------------------------------------------------------|--------------------------------|---|---|---|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|---|---|---|----|---------------------------------|----------|--|
| Machine                                                                  |                                |   |   |   |    |                                                                                                                                                                         |                                        |   |   |   |    |                                 |          |  |
| Source                                                                   |                                |   |   |   |    | Specifications, preliminary design (Actual Sample)                                                                                                                      |                                        |   |   |   |    |                                 |          |  |
| Extent                                                                   |                                |   |   |   |    | Use phase: setting and operation                                                                                                                                        |                                        |   |   |   |    |                                 |          |  |
| Method                                                                   |                                |   |   |   |    | Risk graph                                                                                                                                                              |                                        |   |   |   |    |                                 |          |  |
| Ref. no.                                                                 | Risk estimation (initial risk) |   |   |   |    | Risk reduction<br>Protective/risk reduction measures                                                                                                                    | Risk estimation (after risk reduction) |   |   |   |    | Further risk reduction required | Ref. no. |  |
|                                                                          | S                              | F | O | A | RI |                                                                                                                                                                         | S                                      | F | O | A | RI |                                 |          |  |
| 1.                                                                       | 2                              | 2 | 2 | 1 | 4  | Proper design, test and verification according to EN ISO 13849-1:2015+2023, EN ISO 13849-2:2012, EN 15194:2017+A1:2023. Report no. SHFS260400028671, CZHL260400535101BC | 1                                      | 2 | 2 | 1 | 1  | N/A                             | 1.       |  |
| 2                                                                        | 2                              | 2 | 2 | 1 | 4  | Proper design, test and verification according to EN ISO 13849-1:2015+2023, EN ISO 13849-2:2012, EN 15194:2017+A1:2023. Report no. SHFS260400028671, CZHL260400535101BC | 1                                      | 2 | 2 | 1 | 1  | N/A                             | 2        |  |
| 3                                                                        | 2                              | 2 | 2 | 1 | 4  | Proper design, test and verification according to EN 15194:2017+A1:2023. Report no. CZHL260400535101BC                                                                  | 1                                      | 2 | 2 | 1 | 1  | N/A                             | 3        |  |
| 4                                                                        | 2                              | 2 | 2 | 1 | 4  | Proper design, test and verification according to EN ISO 13849-1:2015+2023 EN ISO 13849-2:2012, EN 15194:2017+A1:2023. Report no. SHFS260400028671, CZHL260400535101BC  | 2                                      | 1 | 2 | 1 | 2  | N/A                             | 4        |  |
| 5                                                                        | 2                              | 2 | 3 | 2 | 6  | Proper design, test and verification according to EN 15194:2017+A1:2023. Report no. CZHL260400535101BC                                                                  | 2                                      | 2 | 2 | 1 | 4  | Apply warning                   | 5        |  |
| 6                                                                        | 2                              | 2 | 3 | 2 | 6  | Proper design, test and verification according to EN 15194:2017+A1:2023. Report no. CZHL260400535101BC                                                                  | 2                                      | 2 | 2 | 1 | 4  | Apply warning                   | 6        |  |
| 7                                                                        | 2                              | 2 | 1 | 2 | 4  | Proper design, test and verification according to EN ISO 13849-1:2015+2023, EN 15194:2017+A1:2023. Report no. SHFS260400028671, CZHL260400535101BC                      | 2                                      | 1 | 1 | 1 | 2  | N/A                             | 7        |  |

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|    |   |   |   |   |   |                                                                                                                                                                         |   |   |   |   |   |               |    |
|----|---|---|---|---|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|---|---|---|---------------|----|
| 8  | 2 | 2 | 3 | 2 | 6 | Proper design, test and verification according to EN ISO 13849-1:2015+2023, EN ISO 13849-2:2012, EN 15194:2017+A1:2023. Report no. SHFS260400028671, CZHL260400535101BC | 2 | 2 | 2 | 1 | 4 | Apply warning | 8  |
| 9  | 2 | 2 | 1 | 2 | 4 | Proper design, test and verification according to EN ISO 13849-1:2015+2023, EN 15194:2017+A1:2023. Report no. SHFS260400028671, CZHL260400535101BC                      | 2 | 1 | 1 | 1 | 2 | N/A           | 9  |
| 10 | 2 | 2 | 2 | 1 | 4 | Proper design, test and verification according to EN ISO 13849-1:2015+2023, EN ISO 13849-2:2012, EN 15194:2017+A1:2023. Report no. SHFS260400028671, CZHL260400535101BC | 2 | 1 | 1 | 1 | 2 | N/A           | 10 |

Note: all identified risks shall be with RI of 1 or 2, otherwise further risk reduction measures are required.  
Suggest measures for Risk with RI of 3~6 after risk reduction: Apply warning in manual or label to reduce risk.

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**The Residual Risk Analysis**

For risk of Impact and Slipping, tripping and falling, the final score of risk assessment of them are 4, which is considered as residual risk, manufacturer takes measures below:

1. Inform appropriate users and warning in the instruction manual. Advised proper protective device should be taken while riding, such as helmet.

**SAFETY ADVICE**

Please adhere to the following safety instructions while operating your QREATE:

- Always wear a properly fitted helmet and protective gear while riding.
- See and be seen. Wear reflective clothing while riding at night.
- Learn the rules of the road before riding. Obey all traffic laws.
- Make sure handlebar grips are not damaged and are properly installed.
- Always check brakes before riding.
- Check for traffic. Always be aware of the traffic around you.
- Watch for and avoid road hazards.
- Reduce speed when riding on wet terrain.
- To prevent skidding or potential injuries, do not accelerate or brake suddenly while making turns.
- To avoid water damage, do not leave your E-Bike in inclement weather.
- When activating pedal assist, increase speed slowly to avoid injury.
- Do not use and/or leave the charger outdoors in hot or wet weather conditions.
- Do not ride up or down extremely steep inclines.
- Do not touch the body of the motor/battery immediately after riding, as the surface may be hot.

Do not make any aftermarket modifications to your QREATE CITY that are not expressly approved by QREATE Series.

- Do not ride the E-Bike if you exceed the maximum weight limit of 264 lbs. **bike weight 28kg, rear carrier max load 15kg**
- Ride slowly in rainy and snowy weather and on slippery surfaces. Give yourself more room to stop to ensure your safety. When braking on wet surfaces, use the rear brake lever first, then the front brake lever.
- Avoid the following hazards: drain grates, potholes, ruts, soft road edges, gravel, and leaves, especially when they are wet. **Suitable for urban using**
- The rider must be able to straddle the E-Bike with at least 1 inch of clearance above the top tube when standing as pictured.
- This E-Bike is not designed for riders under 15 years old.
- **The use of bicycle trailers or trailer bicycles with this e-bike is not permitted.**

**WARNING**

INSTRUCTIONS PERTAINING TO RISK OF FIRE OR ELECTRIC SHOCK-IMPORTANT SAFETY INSTRUCTIONS

WARNING- When using this product, basic precautions should always be followed, including the following:

Read all the instructions before using the product.

To reduce the risk of injury, close supervision is necessary when the product is used near children.

Do not put fingers or hands into the product.

Do not use this product if the flexible power cord or output cable is frayed, has broken insulation, or any other signs of damage.

This equipment is not intended to be used/stored at ambient temperatures less than 0°C (32°F) or above ambient temperatures of 40°C (104°F).

The battery is intended to be charged when the ambient temperature is between 0°C (32°F) and 40°C (104°F). Never charge the battery when ambient temperatures are outside this range.

Modifying or attempting to repair the E-Bike system except as indicated in the instructions for use and care is prohibited.

Charging of the E-Bike shall only be performed with the manufacturer's recommended charger.

SAVE THESE INSTRUCTIONS



## Test Report

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### ESA LIST

| No | Description     | Qty | Model       | Manufacture                     | Technical Data                                                     |
|----|-----------------|-----|-------------|---------------------------------|--------------------------------------------------------------------|
| 1  | Motor           | 1   | M132        | (SHANGHAI) CO.,LTD.             | 36V DC,<br>250W                                                    |
| 2  | Controller      | 1   | MC5-E0      | (JIANGSU) CO.,LTD.              | 36V DC,<br>250W                                                    |
| 3  | Display         | 1   | KD1286      |                                 | 36V DC                                                             |
| 4  | Sensor          | 1   | KD/PS       |                                 | 36V DC                                                             |
| 5  | Battery         | 1   | LN-KT-D05   |                                 | 36VDC,<br>10.4Ah,<br>374.4Wh                                       |
| 6  | Brakes          | 2   | LL-E405DG   | LOGAN BICYCLE PARTS             | --                                                                 |
| 7  | Front lighting  | 1   | QD-576      | JIANDE WUXING BICYCLE<br>CO.LTD | 12VDC                                                              |
| 8  | Rear lighting   | 1   | WD558       | JIANDE WUXING BICYCLE<br>CO.LTD | 12VDC                                                              |
| 9  | Battery charger | 1   | GPLC084V42Y |                                 | Input: 110-<br>240V~, 47-<br>63Hz, 1.8A,<br>Output:<br>42VDC, 2.0A |



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Photo Appendix

Photo relative to overall specimen:



Received Sample

Result/Rating/Record Key(s)

- I. Result/Rating Keys: P = Pass = Meet; F = Fail = Not Meet; NA = Not applicable = Not suitable; NR = NC = Test not conduct/requested per client request; TT = Test terminated due to the earlier failure of last test.
- II. Record Keys: "C:" means Claimed parameter; "A:" means Actual recorded from test; "D:" means Data for reference only.

General Report Note(s)

- A. N.B. Only applicable clauses were shown.
- B. (1) 1mg/kg = 0.0001% (2) MDL = Method Detection Limit (3) ND = Not Detected (< MDL)  
(4) "-" = Not Regulated
- C. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.
- D. This document cannot be used for publicity, without prior written approval of the SGS.
- E. Since the data and / or information above division line of front page is provided by the applicant, the relevant results or conclusions of this report are only made for these data and / or information, SGS is not responsible for the authenticity, integrity and results of the data and information and / or the validity of the conclusion. Testing results only apply to the sample as received.
- F. The declaration of conformity is based on acceptance limits chosen based on simple acceptance ( $w = 0$ ,  $AL = TL$ ).

Statements of conformity are reported as:

Passed - The measured values were observed in tolerance at the points tested.

Failed - One or more measured values were observed out of tolerance at the points tested.

\*\*\* End of Report \*\*\*



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