



## LISTING REPORT/INSPECTION PROCEDURE

Jetson Electric Bikes LLC  
PROJECT NUMBER: SZ-CERT210902614

Page 1 of 27  
Issued: 13 Sep. 2021  
Revised: 13 Jan. 2022

**620 Old Peachtree Road NW, Suite 100, Suwanee, GA 30024 USA (770) 570-1800**

Test Report Number: SZES210800533262

A representative sample of the product covered by this report has been evaluated and found to comply with the applicable requirements of STANDARD FOR SAFETY for Electrical Systems for eBikes, ANSI/CAN/UL2849:2020, 1st Edition, dated January 2, 2020.

This report supersedes and replaces previous copies of report number SZES210800533261.

|   |  |
|---|--|
| <b>Issuing Laboratory</b> .....             | SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch                                    |
| Address .....                               | No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, Guangdong, China 518057 |
| <b>Applicant (Certificate Holder)</b> ..... | Jetson Electric Bikes LLC  |
| Address .....                               | 86 34th Street 4th Floor, 11232, Brooklyn, New York, United States of America                      |
| Contact Details .....                       | Ronnie Chen<br>Phone: 6464641557<br>Email: ronnie@ridejetson.com                                   |
| <b>Manufacturer</b> .....                   | Dongguan Concepts Wit Tech Ltd.  |
| Address .....                               | No. 15, 2nd Industry, Hetian, Houjie Town, Dongguan, Guangdong, China                              |
| Contact Details .....                       | Justin Tao<br>Phone: 13682528587<br>Email: Justin@onebotbike.com                                   |
| <b>Factory 1</b> .....                      | Dongguan Concepts Wit Tech Ltd.  |
| Address .....                               | No. 15, 2nd Industry, Hetian, Houjie Town, Dongguan, Guangdong, China                              |
| Contact Details .....                       | Justin Tao<br>Phone: 13682528587<br>Email: Justin@onebotbike.com                                   |

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|  |   |
|--|---|
| <b>Product Type</b> .....                    | eBike   |
| <b>Trade Mark</b> .....                      | <b>JETSON</b>   |
| <b>Product description</b> .....             | Battery type: [x] Lithium [ ] Lead-acid [ ] Nickel<br>[ ] self-balancing [x] not self-balancing<br>[x] Provided with handle for grasping while riding   |
| <b>Model Number(s)</b> .....                 | J5, J5(JJ5-BLK), J5(JJ5-XXX) ('XXX' refer to color)   |
| <b>Model Differences</b> .....               | All models are technical identical except for model number and color.   |
| <b>Electrical Ratings</b> .....              | Nominal Voltage: 36 Vdc<br>Rated Capacity: 6.0 Ah   |
| <b>Other Ratings</b> .....                   | Charging temperature range: 0°C – 40°C<br>Discharging temperature range: -10°C - 45°C   |
| <b>Accessories</b> .....                     | Battery Charger:<br>Model PS65D420Y1500S, manufactured by SHENZHEN<br>FLYPOWER TECHNOLOGY CO LTD; Input: 100-240 Vac, 50/60<br>Hz, 1.5 A; Output: 42Vd.c., 1.5A; UL listed (E302944)  |
| <b>Testing Laboratory</b> .....              | SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen<br>Branch  |
| <b>Address</b> .....                         | No. 1 Workshop, M-10, Middle Section, Science & Technology Park,<br>Shenzhen, Guangdong, China 518057<br>No.2, Jianghao Industrial Factory Area, No.430, Jihua Road, Bantian<br>Street, Longgang District, Shenzhen, Guangdong, China |
| <b>Date of receipt of test item</b> .....    | 2021-08-04  |
| <b>Date(s) of performance of tests</b> ..... | 2021-08-04 to 2021-09-02  |
| <b>Conditions of Acceptability</b> .....     | N/A   |

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### CO-LISTING PAGE

#### CO-LISTING APPLICANT I

Applicant's Name:

Address:

Primary Contact:

Phone:

Fax:

Email:

#### Product Correlation:

| Basic Models | Co-Listed Models | Note any differences between Basic and Co-Listed models |
|--------------|------------------|---|
| 1.           |                  |   |
| 2.           |                  |   |
| 3.           |                  |   |

#### CO-LISTING APPLICANT II

Applicant's Name:

Address:

Primary Contact:

Phone:

Fax:

Email:

#### Product Correlation:

| Basic Models | Co-Listed Models | Note any differences between Basic and Co-Listed models |
|--------------|------------------|---|
| 1.           |                  |   |
| 2.           |                  |   |
| 3.           |                  |   |

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### GENERAL INFORMATION

#### **Components**

Components used in the covered products must be those outlined in the latest edition of the Listing Report.

#### **Listing Marking**

This report along with a valid certificate authorizes the certificate holder to use the Listing Marking of SGS North America only on products covered by this report and in accordance with the Product Certification Program Policy Handbook.

#### **Production Line Tests**

Manufacturing and Production Tests shall be performed as required by this Report.

#### **Responsibility of the Manufacturer and Factory**

- 1) It is the manufacturer and factory's responsibility to restrict the use of markings which reference SGS to those products which are found by the manufacturers own inspection to comply with the product description in this report. This includes reference to SGS directly and/or indirectly.
- 2) During hours in which the factory is in operation, the SGS inspector shall be given unlimited access to any portion of the premises where the product and/or parts are being produced, assembled, inspected and labeled; and to the test area designated for routine tests. The SGS inspector shall be permitted to inspect and subject the products to prescribed tests prior to shipment any product bearing or intended to bear marking referencing SGS.
- 3) The factory shall provide all required testing equipment and facilities including trained personnel for conducting all routine tests that are to be performed at the factory. These shall be available when needed so that the inspection work can proceed without delays.

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### **Follow up Inspections**

As part of the SGS Follow-Up inspection, it is required that an inspector periodically visit the factory location(s) and select for examination and/or testing, the most recent production sample of the product covered in the Listing Report.

### **SGS Inspector**

- 1) A product which is found by the SGS inspector to have features which make it unacceptable to bear marking referencing SGS shall be corrected if the listing marking is to be used. The inspector shall carefully check additional production for such features until conditions are considered normal.
- 2) A product which does not comply with the provisions of the listing report shall have all reference to SGS removed. If the rejection of the product is questioned by the factory representative, it may be put on hold in separate area of location pending appeal. The factory shall satisfy the inspector that all marks referencing SGS are removed from the rejected material or finished product. Factory shall destroy product and or turn over to inspector for destruction.
- 3) All discrepancies between the product and the listing report shall be immediately stated to the attention of the factory representative. This shall be noted in the follow-up inspection report as a discrepancy.

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### **GENERAL CONSTRUCTIONAL REQUIREMENTS TO BE VERIFIED**

Construction Details - This section specifies construction and component details in addition to the critical components table which are to be verified during factory follow-up inspections.

1. Marking(s) - Refer to Marking page.
2. Illustration - Refer to Illustration pages.

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### **ROUTINE TESTS FOR MANUFACTURING AND PRODUCTION**

The manufacturer shall perform the following Manufacturing and Production Tests on 100% of equipment produced which has both hazardous live parts and accessible conductive parts

#### **Required Tests**

N/A

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### PHOTOGRAPHS

eBike, J5

PHOTO NO. 1-2



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eBike, J5

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PHOTO NO. 3-4



(Charging port)



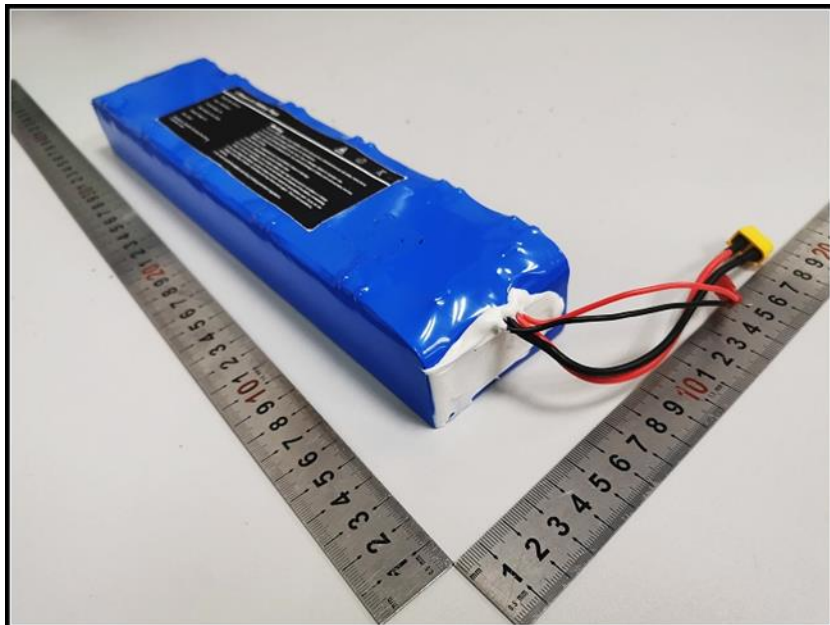
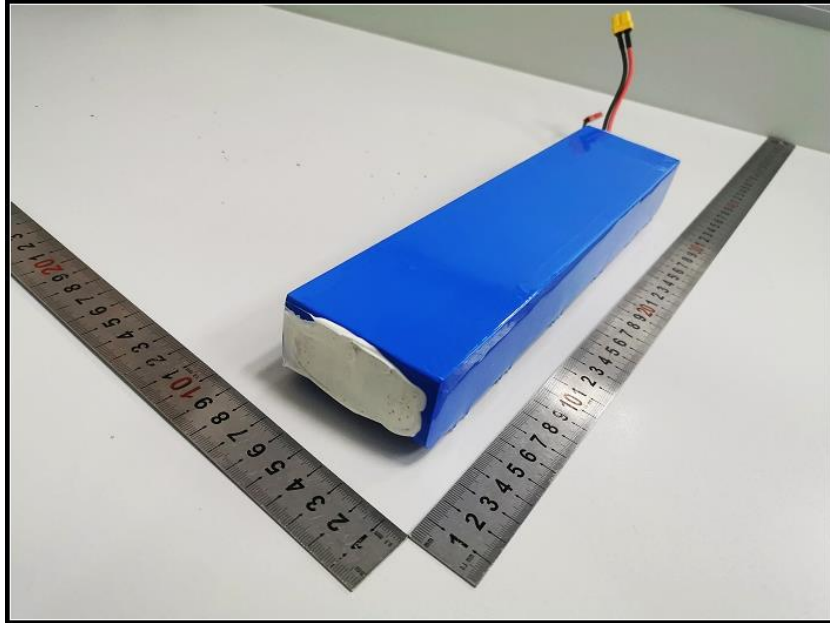
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eBike, J5

Battery (GNS1)



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eBike, J5

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PHOTO NO. 7-8

Motor (XDGS-14)



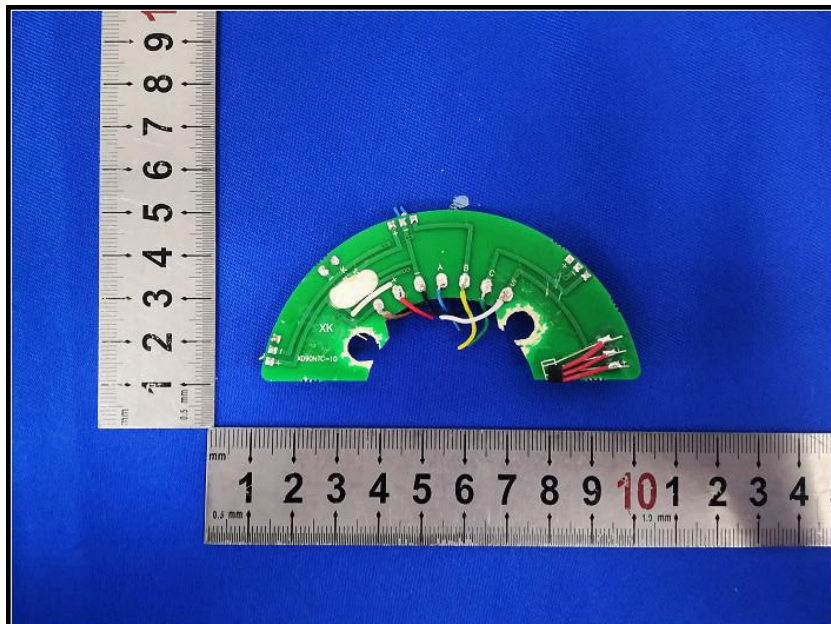
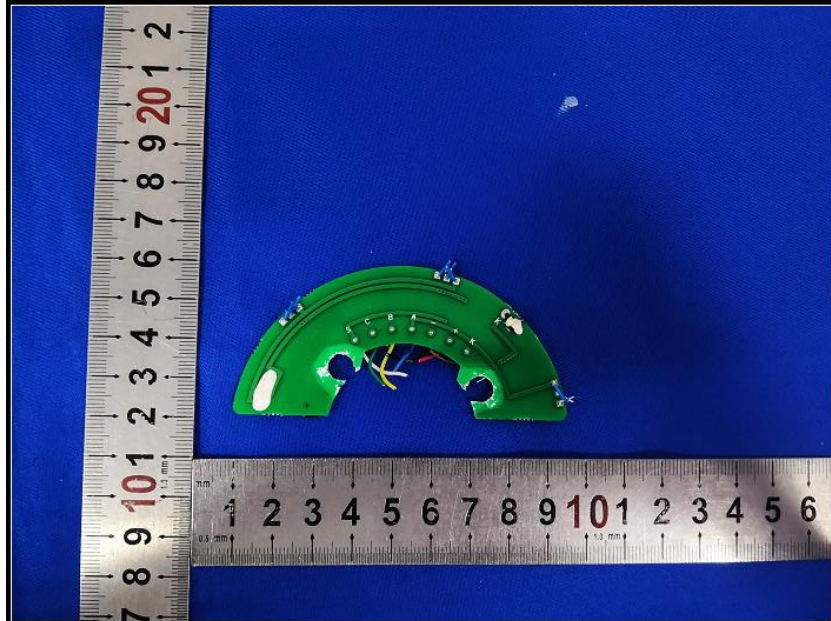
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eBike, J5



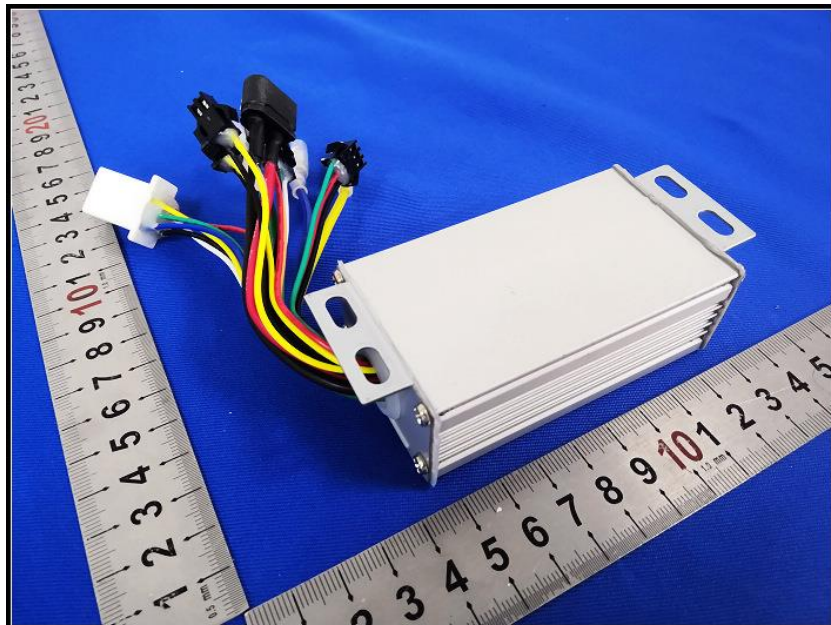
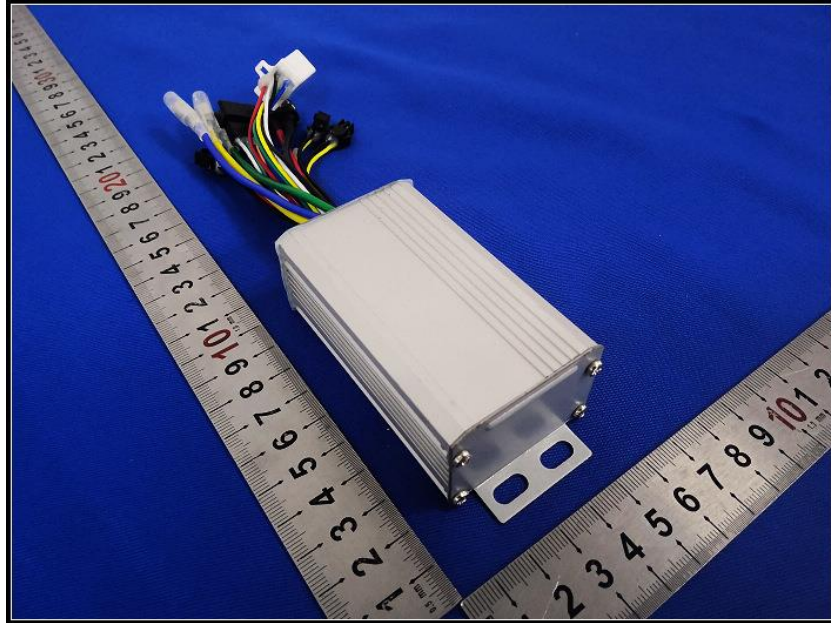
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eBike, J5

Controller (PY-S1)



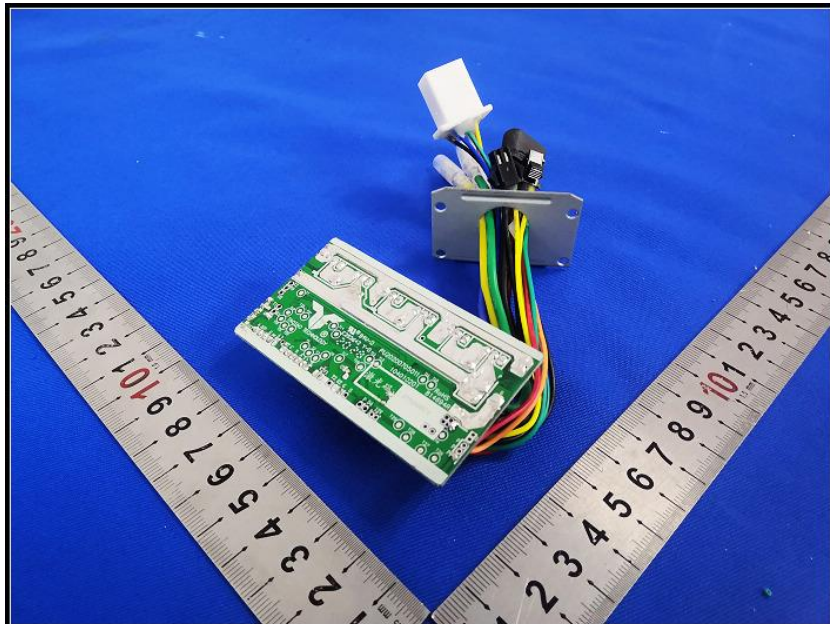
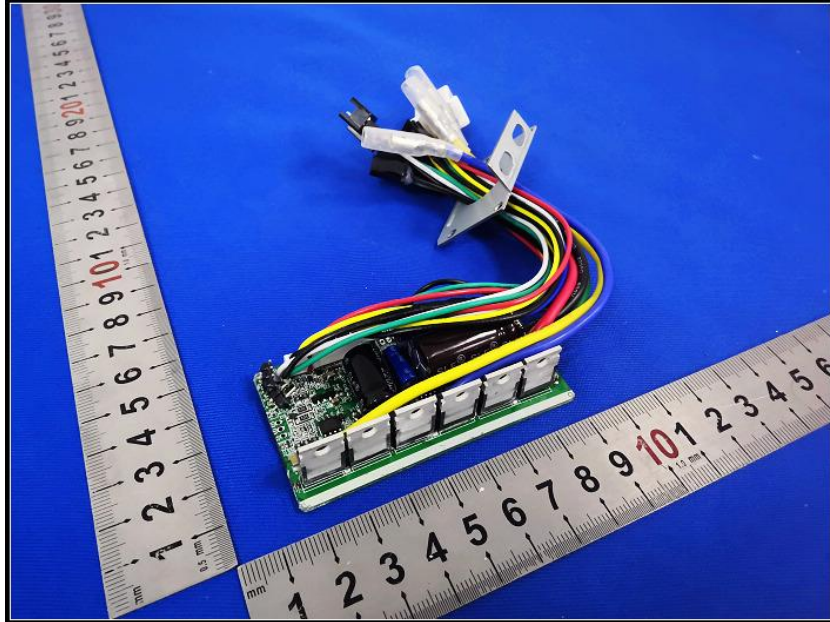
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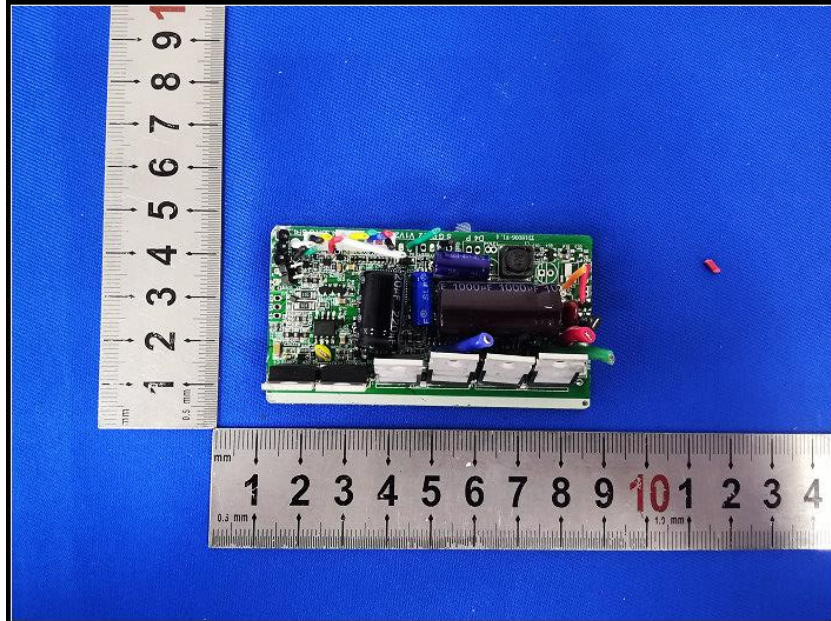


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PHOTO NO. 17

Charger (PS65D420Y1500S)



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### CRITICAL COMPONENTS

The following components are considered "critical" in terms of this certification and must be verified during factory inspections. No substitutions or alternate components are allowed unless specifically as stated in this report.

| Photo No. | Item No. | Component name           | Manufacturer/ trademark                            | Type/model                | Technical data   | Standard                                  | Mark(s) of conformity    |
|-----------|----------|--------------------------|--|---------------------------|--|---|--------------------------|
| 17        | 1        | Battery Charger          | SHENZHEN FLYPOWER TECHNOLOGY CO LTD                | PS65D420Y1500S            | Input: 100-240 Vac, 50/60 Hz, 1.5 A; Output: 42Vd.c., 1.5A | UL 60950-1 & CAN/CSA C22.2 No. 60950-1-07 | UL (E302944)             |
| --        | 2        | Enclosure                | CHI MEI CORPORATION                                | PA-765(+)                 | ABS, Min. thickness 1.5mm, Rated min. V-0, RTI 80°C        | UL94 UL746C CSA-C22.2 No. 0.17            | UR (E56070)              |
| 4         | 3        | Charging port            | Shenzhen Xingjiayu Technology Co., Ltd.            | DC-022B                   | 30 V, 10 A   | *   | *                        |
| --        | 3-1      | Plastic of charging port | GUANGDONG HTASO NEW MATERIALS TECHNOLOGY CO., LTD  | PA66 T303 (XX)GF BK-D(f1) | PA66, V-0, 110°C, Min. thickness 0.8mm                     | UL94, UL746C CSA-C22.2 No. 0.17           | UR (E321019)             |
| 5,6       | 4        | Battery pack             | Guangxi Ares Energy Technology Co., Ltd            | GNS1                      | 36 V, 6Ah  | ANSI/CAN/UL/ULC 2271                      | SGS Contract No.: 801432 |
| 7,8       | 5        | Motor                    | SUZHOU XIONGDA ELECTRIC MACHINE CO.,LTD            | XDGS-14                   | Class A, 36V, 350W   | *   | *                        |
| --        | 5-1      | Enclosure                | Interchangeable                                    | Interchangeable           | aluminum, Min. thickness 1.5 mm                            | *   | *                        |
| 8         | 5-2      | Motor Winding            | TONGLING NONFERROUS COPPER CROWN ELECTRICAL CO LTD | PEW                       | MW 5C, 155 deg. C  | ANSI/UL 1446                              | UR (E217937)             |
| --        | 5-2a     | Alt.                     | Interchangeable                                    | Interchangeable           | MW 5C, 155 deg. C  | ANSI/UL 1446                              | UR                       |

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|       |      |                                 |   |                 |                                     |  |                 |
|-------|------|---------------------------------|---|-----------------|-------------------------------------|--|-----------------|
| --    | 5-3  | Slot liner                      | interchangeable   | interchangeable | VTM-2, 105°C                        | UL94,<br>UL746C<br>CSA-C22.2<br>No. 0.17 | UR              |
| --    | 5-4  | Slot wedge<br>and end<br>spider | ZHEJIANG<br>HUAQING NEW<br>MATERIALS CO<br>LTD              | 6021            | VTM-2, 105°C                        | UL94,<br>UL746C<br>CSA-C22.2<br>No. 0.17 | UR<br>(E361425) |
| --    | 5-5  | Internal<br>wires<br>(signal)   | Interchangeable   | Interchangeable | Min. 80°C, Min.<br>60V, Min. 26AWG  | UL758                                    | UR              |
| --    | 5-6  | Internal<br>wires<br>(motor)    | Interchangeable   | Interchangeable | Min. 80°C, Min.<br>60V, Min. 16AWG  | UL758                                    | UR              |
| --    | 5-7  | Insulation<br>tube              | Interchangeable   | Interchangeable | VW-1, 125 °C                        | UL224                                    | UR              |
| 9,10  | 5-8  | Printed<br>Wiring<br>Board      | GUANGDE<br>XINKE<br>ELECTRONICS<br>CO LTD                   | XK-1            | V-1, 130°C                          | UL796<br>CAN/CSA-<br>C22.2 No.<br>0.17   | UR<br>(E231590) |
| --    | 5-8a | Alt.                            | Interchangeable   | Interchangeable | Min. V-1, 130°C                     | UL796<br>CAN/CSA-<br>C22.2 No.<br>0.17   | UR              |
| --    | 5-9  | Motor<br>Transistor             | Cosemitech<br>(Shanghai) Co.,<br>Ltd                        | CH461ASR        | Tj = 165°C                          | *  | *               |
| 11,12 | 6    | Controller                      | Changzhou<br>Taochen<br>Electronic<br>Technology<br>Co.,Ltd | PY-S1           | --                                  | *  | *               |
| 15,16 | 6-1  | Printed<br>Wiring<br>Board      | GUANGDE<br>YARSUN<br>ELECTRONICS<br>TECHNOLOGY<br>CO LTD    | Y-D             | V-0, 130°C                          | UL796<br>CAN/CSA-<br>C22.2 No.<br>0.17   | UR<br>(E253642) |
| --    | 6-2  | MOSFETs<br>(Q4-Q9)              | Samwim  | SW062R68E7T     | VDS: 68 V<br>ID: 110 A              | *  | *               |
| --    | 6-3  | Lead wires<br>(signal)          | Interchangeable   | Interchangeable | Min. 80°C, Min.<br>60V, Min. 26AWG  | UL758                                    | UR              |
| --    | 6-4  | Lead wires<br>(power)           | Interchangeable   | Interchangeable | Min. 105°C, Min.<br>60V, Min. 20AWG | UL758                                    | UR              |

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|    |     |                       |                 |                 |                                    |       |    |
|----|-----|-----------------------|-----------------|-----------------|------------------------------------|-------|----|
| -- | 6-5 | Lead wires<br>(motor) | Interchangeable | Interchangeable | Min. 80°C, Min.<br>60V, Min. 20AWG | UL758 | UR |
|----|-----|-----------------------|-----------------|-----------------|------------------------------------|-------|----|

\* Tested as part of the apparatus

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### ANNUAL RE-TESTING OF UNLISTED COMPONENTS

The unlisted components on this page are uncontrolled (not falling under a third party certification program) and require periodic retesting and/or evaluation.

**Note to SGS Follow Up Inspector: The inspection office will notify you in writing when these components must be selected and sent to the Lab indicated below for re-evaluation.**

Ship the samples to: N/A

The unlisted components covered by this report and are required to be re-tested/evaluated are shown in the following table:

| PHOTO #                      | ITEM #      | DESCRIPTION                 | MFR | TYPE/<br>MODEL | RATING |
|------------------------------|-------------|-----------------------------|-----|----------------|--------|
|                              |             |                             |     |                |        |
| <b>VERIFICATION PROCESS</b>  |             |                             |     |                |        |
| <b>Test Standard:</b>        |             |                             |     |                |        |
| <b>Frequency of Testing:</b> |             | <b>No. of Test Samples:</b> |     |                |        |
| <b>Clause No.</b>            | <b>TEST</b> | <b>PARAMETERS</b>           |     |                |        |
|                              |             |                             |     |                |        |
|                              |             |                             |     |                |        |
|                              |             |                             |     |                |        |

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## MARKING 1

The following markings are required:



Remark:

Marking plates for other models are of the same pattern.

French translations of the English safety markings should be provided for Canada market.

The words, "CAUTION", "WARNING", OR "DANGER" in a cautionary marking shall be in letters not less than 3.2 mm (1/8 inch) high. The remaining letters in a cautionary marking shall not be less than 1.6 mm (1/16 inch) high. The words, "WARNING" or "DANGER" are alternatives for the word, "CAUTION".

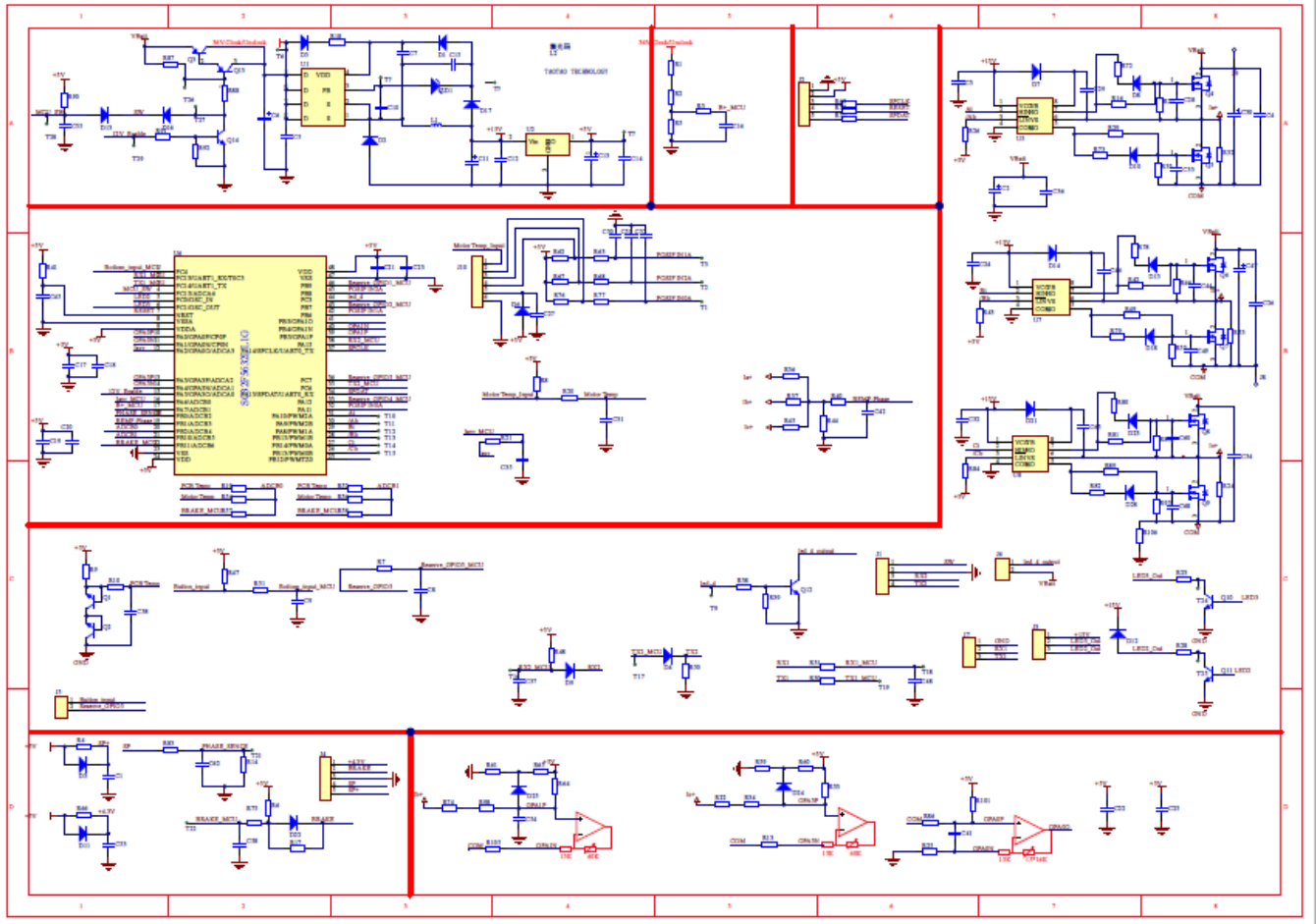
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### ILLUSTRATION 1

Circuit diagram of Controller (PY-S1)

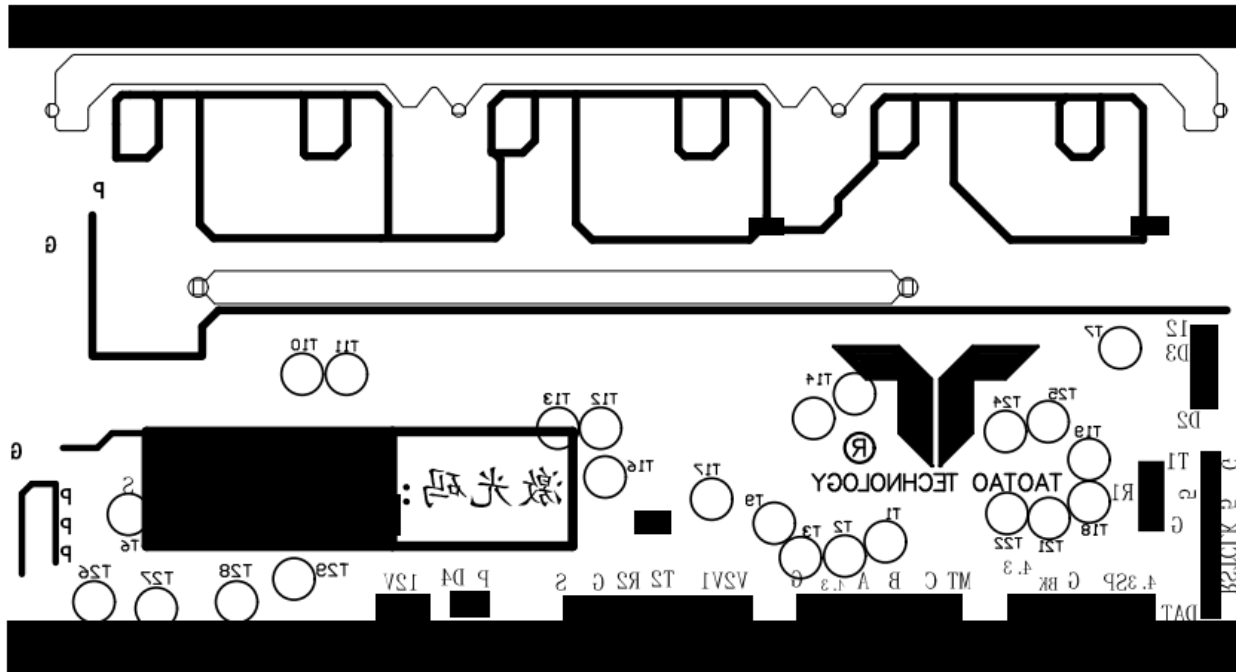
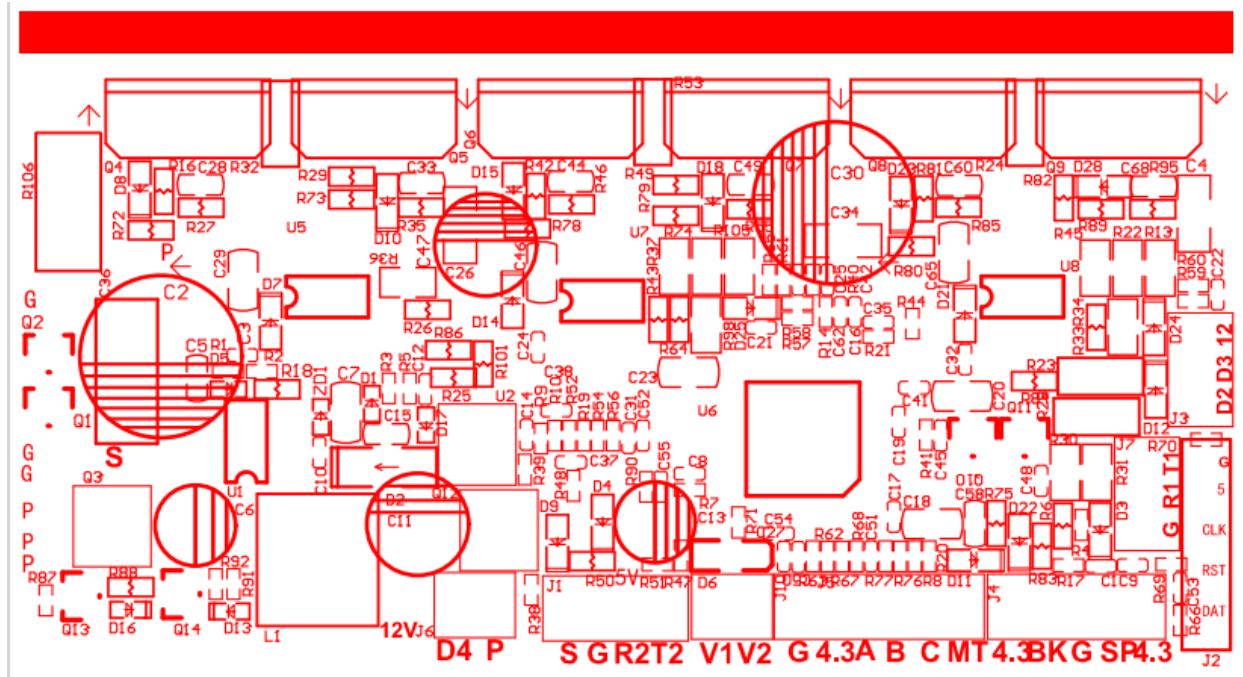


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### PCB Layout of Controller (PY-S1)

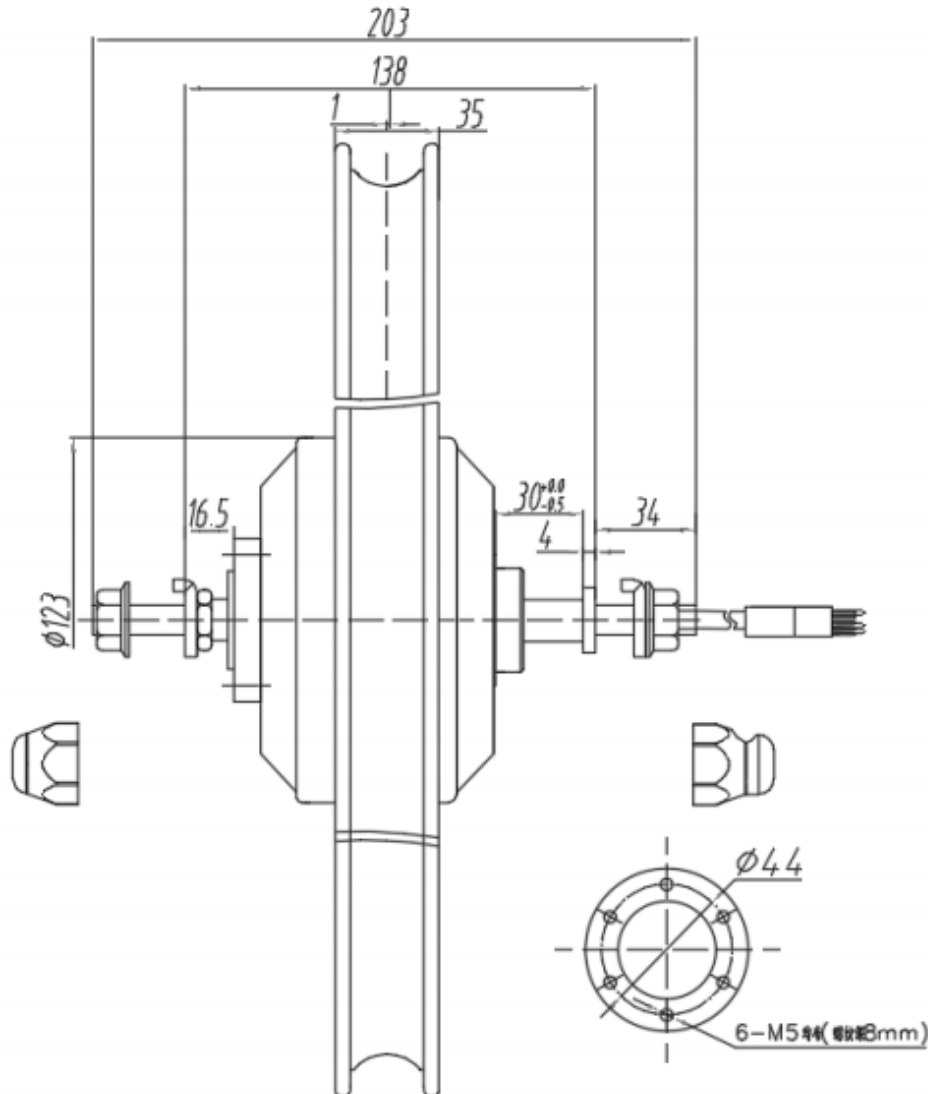


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**Illustration 2**  
**Motor dimensions (XDGS-14)**  
(unit: mm)



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### SUMMARY OF TEST RESULTS

The following tests were performed:

STANDARD FOR SAFETY for Electrical Systems for eBikes, ANSI/CAN/UL  
2849:2020, 1st Edition, dated January 2, 2020.

| <u>Section</u> | <u>Test Description</u>        |
|----------------|--------------------------------|
| 27             | Input Test                     |
| 28             | Temperature Test               |
| 32.3           | Component fault tests          |
| 32.5           | Locked rotor motor test        |
| 32.6           | Running overload test          |
| 33             | Impact Test                    |
| 34             | Mold Stress                    |
| 37             | Permanence of Marking          |
| 38             | Vibration test                 |
| 40             | Startup Assistance Mode Test   |
| 41.2           | Reverse Pedaling Test          |
| 41.3           | Pedal Cessation Test for EPACs |
| 41.4           | Cutoff When Braking Test       |
| 41.5           | Cutoff at Maximum Speed Test   |

Results of the tests indicate the specimens conform to the test criteria that were found to be applicable.

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### REVISION TABLE

The following changes have been made to this Report:

| <u>Date</u>  | <u>Project #</u>         | <u>Revision prepared by</u> | <u>Page</u> | <u>Description of Change</u>  |
|--------------|--------------------------|-----------------------------|-------------|---|
| 13 Jan. 2022 | SZES21<br>120085<br>50BA | Guitta<br>Gan               | 1,17        | - Updated battery pack manufacturer from 'Jetson Electric Bikes LLC' to ' Guangxi Ares Energy Technology Co., Ltd ' |
|              |                          |                             |             |   |
|              |                          |                             |             |   |

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### CONCLUSION

Samples of the products covered by this Report have been found to comply with the applicable requirements of STANDARD FOR SAFETY for Electrical Systems for eBikes, ANSI/CAN/UL 2849:2020, 1st Edition, dated January 2, 2020.

Report Prepared by:

Guitta Gan  
Evaluator

Report Approved by:

Jerry Xiao  
Certification Reviewer

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