

Jetson Electric Bikes LLC
PROJECT NUMBER: SZ-CERT210902614

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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.

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

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



LISTING REPORT/INSPECTION PROCEDURE

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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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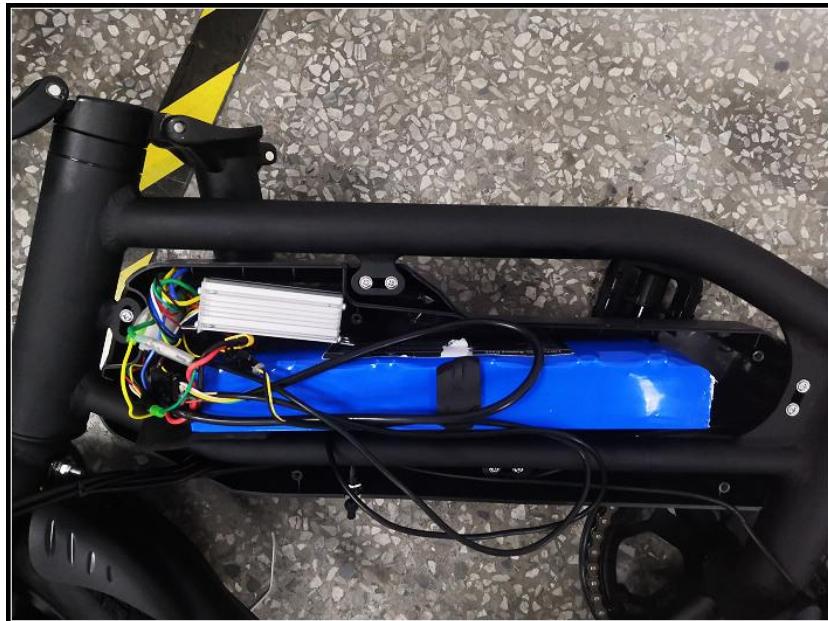
eBike, J5

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PHOTO NO. 3-4



(Charging port)



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eBike, J5

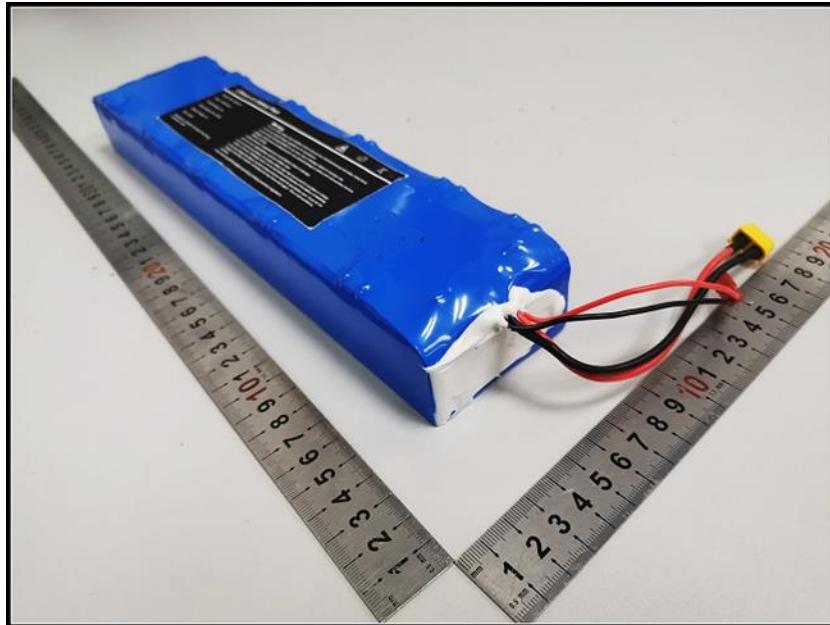
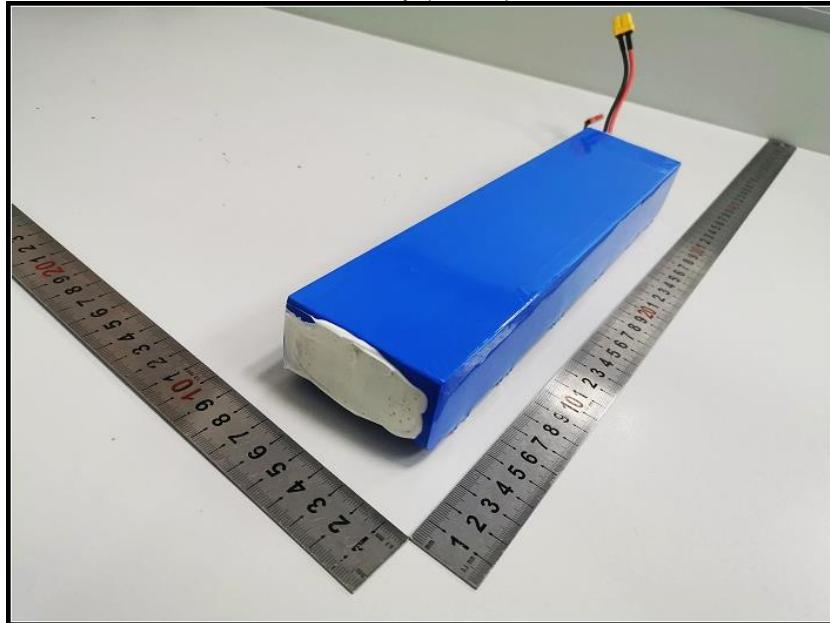
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PHOTO NO. 5-6

Battery (GNS1)



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PHOTO NO. 7-8

Motor (XDGS-14)



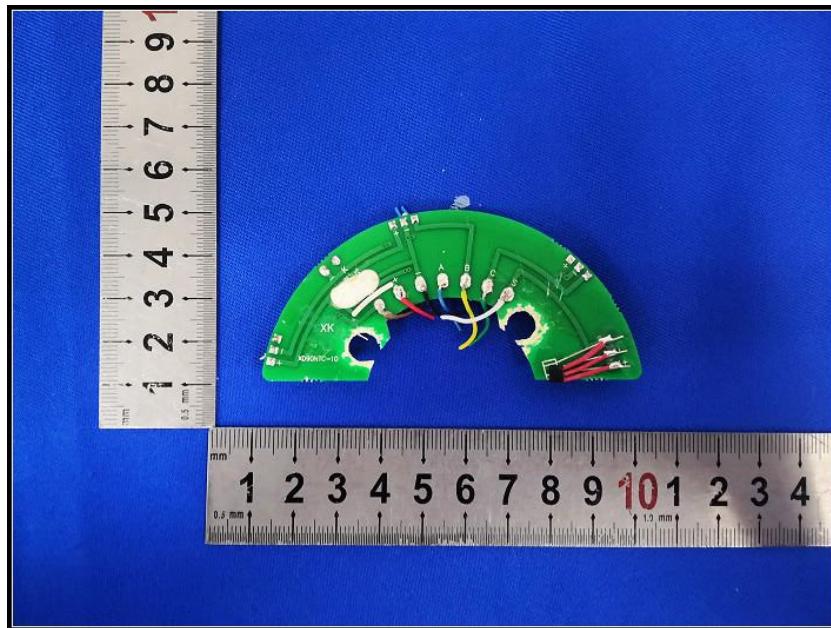
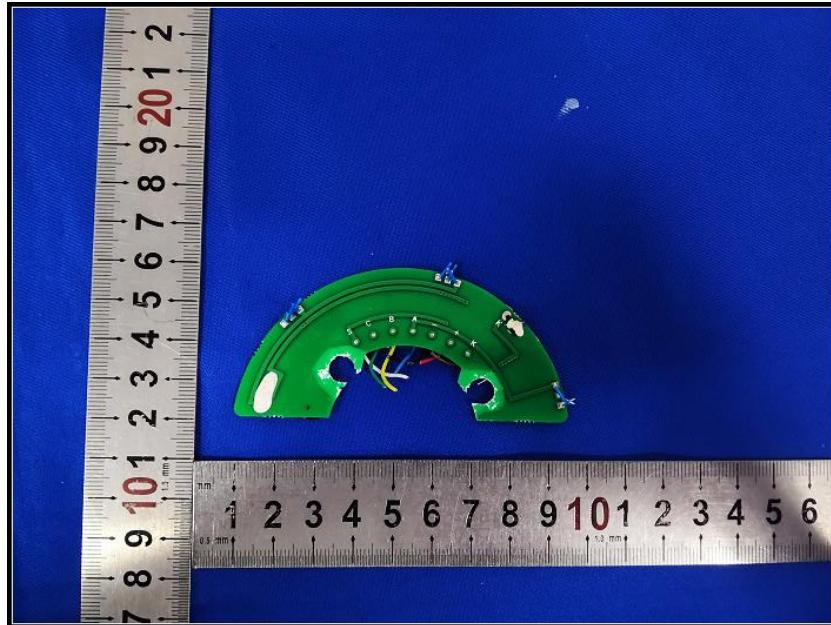
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eBike, J5

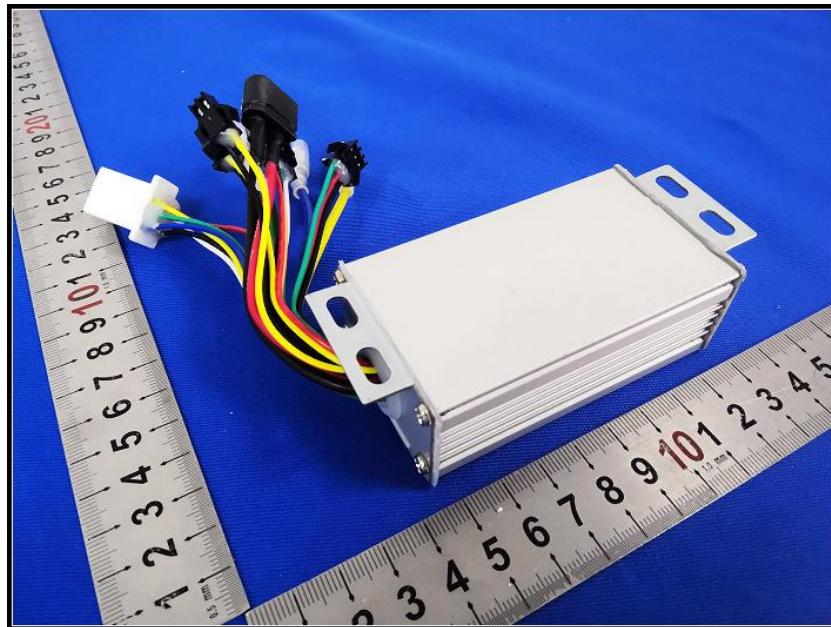
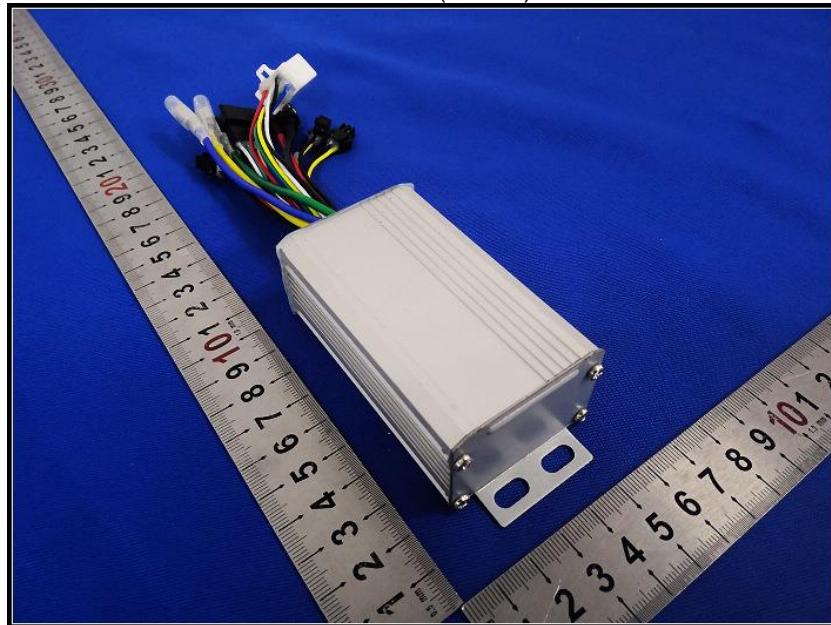
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PHOTO NO. 11-12

Controller (PY-S1)



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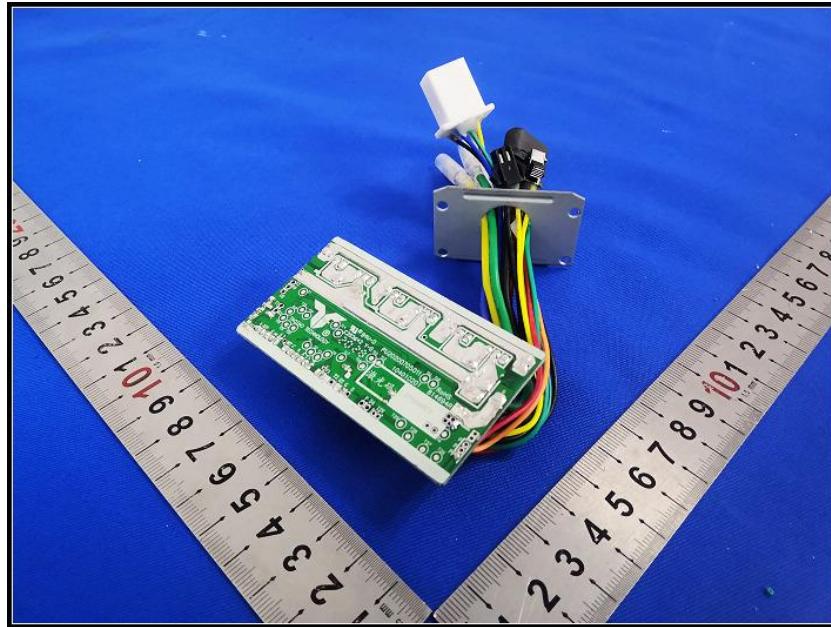
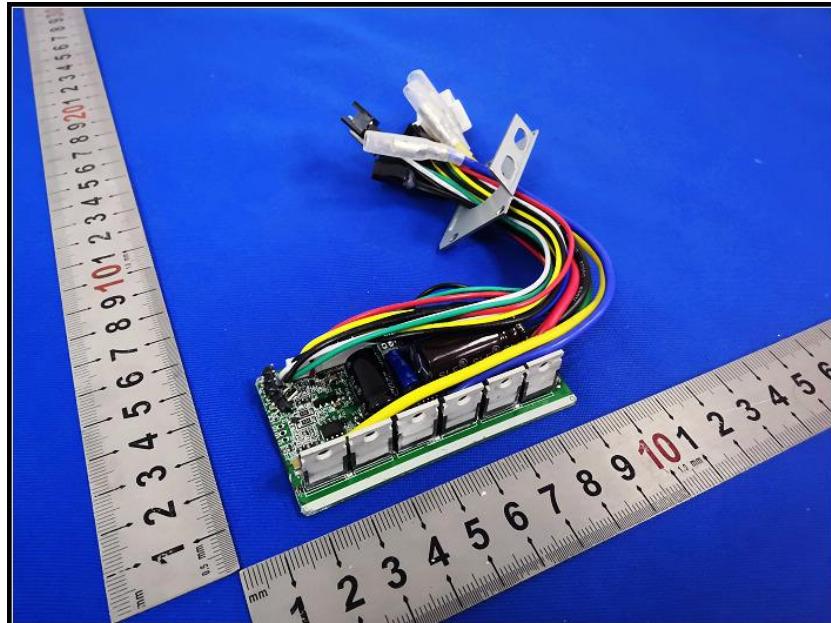
eBike, J5

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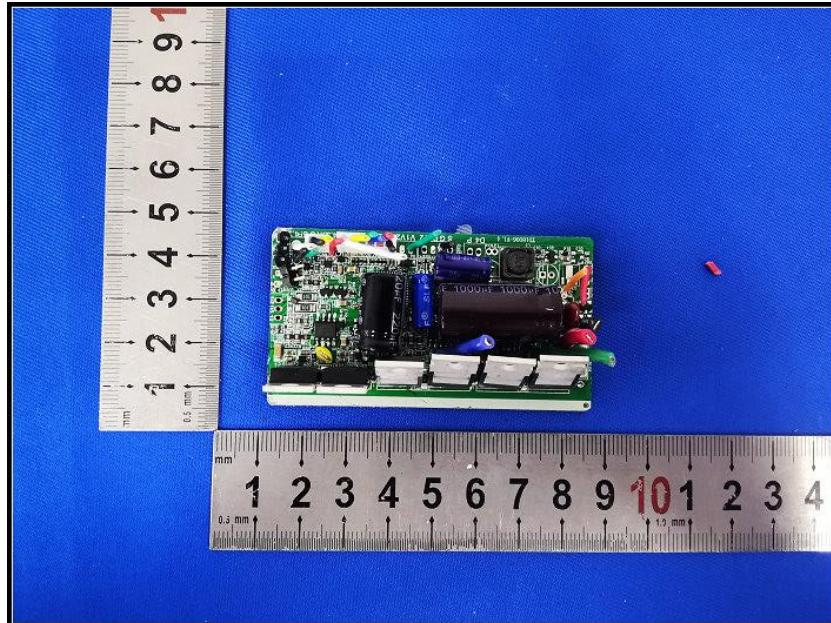


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PHOTO NO. 17

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

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--	6-5	Lead wires (motor)	Interchangeable	Interchangeable	Min. 80°C, Min. 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/ MODEL	RATING		
VERIFICATION PROCESS							
Test Standard:							
Frequency of Testing:		No. of Test Samples:					
Clause No.	TEST	PARAMETERS					

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MARKING 1

The following markings are required:



Remark:

Marking plates for other models are of the same pattern.

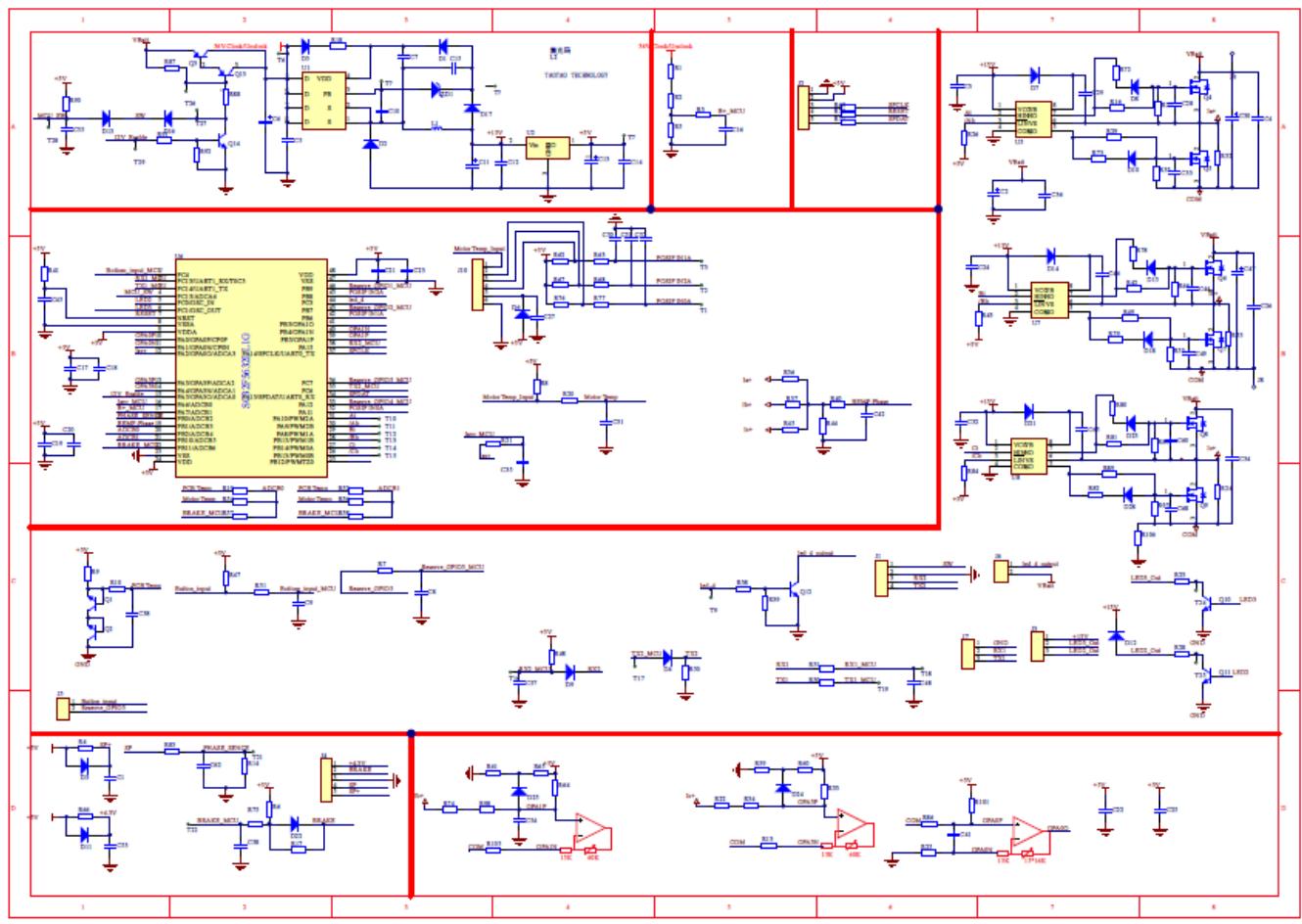
French translations of the English safety markings should be provided for Canada market.

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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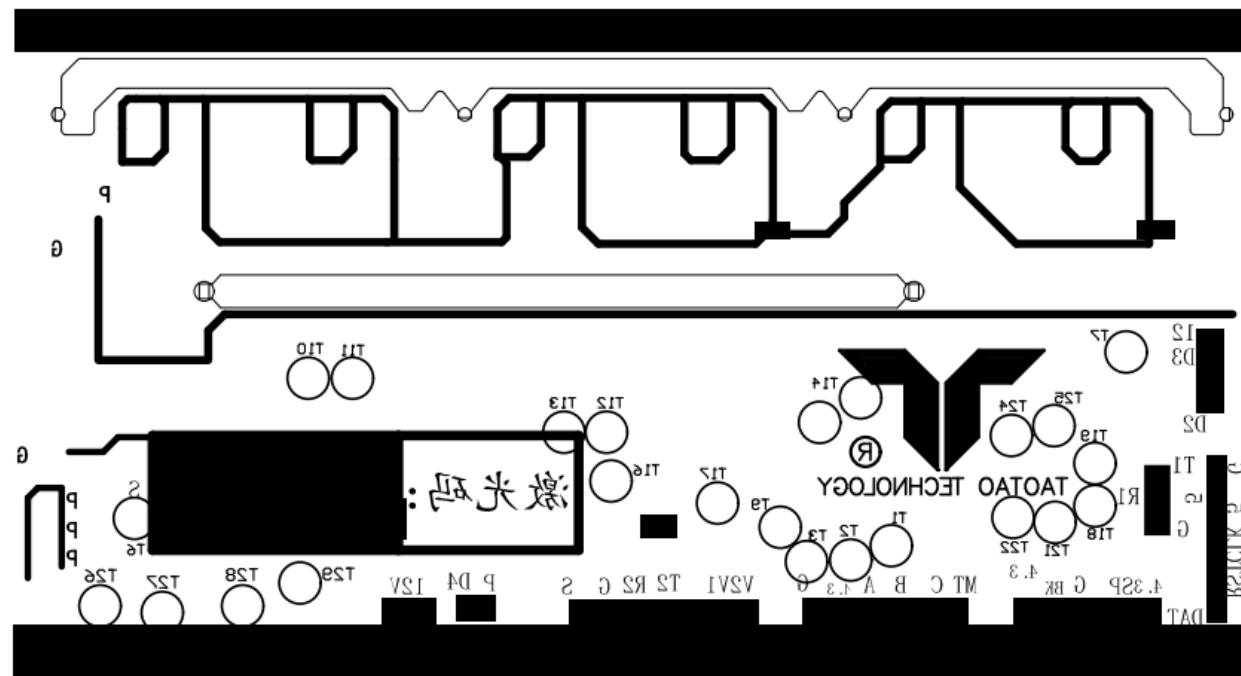
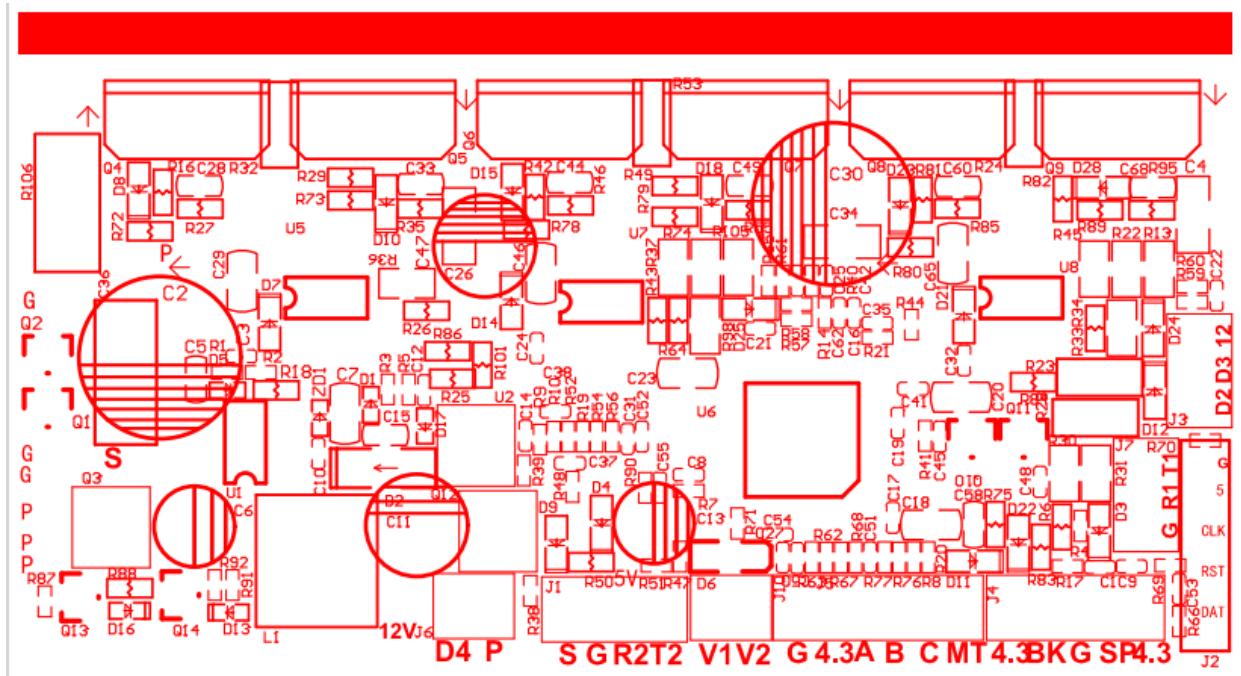
ILLUSTRATION 1

Circuit diagram of Controller (PY-S1)



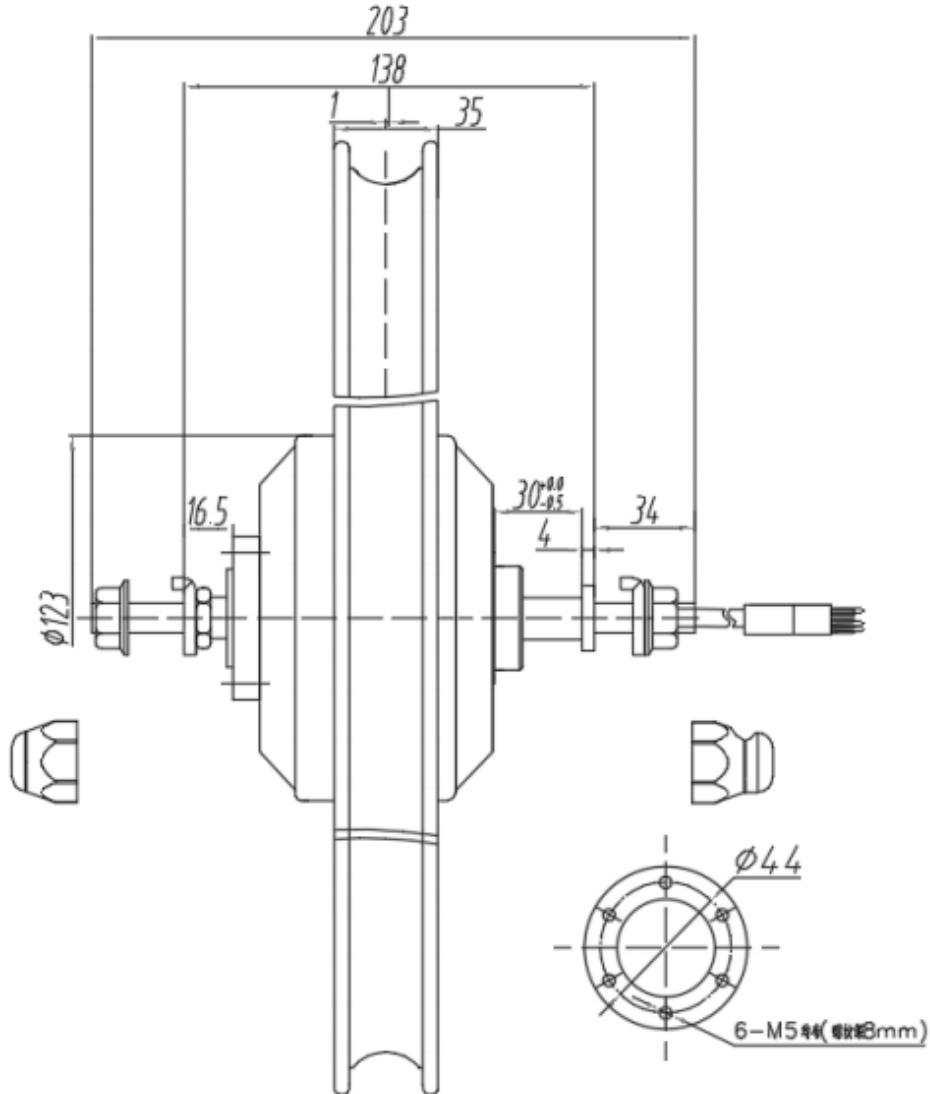
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PCB Layout of Controller (PY-S1)



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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 120085 50BA	Guitta Gan	1,17	- Updated battery pack manufacturer from 'Jetson Electric Bikes LLC' to ' Guangxi Ares Energy Technology Co., Ltd '

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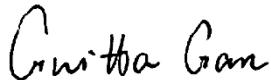
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CONCLUSION

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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