

Lithium Battery UN38.3 Test Report

Report No.: A001B20170112087

| Samples | Lithium Polymer Battery | ^{al Co} |
|------------|--------------------------------|------------------|
| Model | 803035 | |
| Applicant | A&S Power Technology Co., Ltd. | Ś |
| Issue Date | 2017-01-18 | |



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| 1. Sample Description | 1 11 200 | | | | |
|---------------------------|-------------------------------------|---------------------|----------------|-----------------------------------|------------|
| Samples Name | Lithium Poly | mer Battery | Model Name | 803035 | 5 6 |
| Applicant | C C | A&S Power Technolog | | | 2 |
| Manufacturer | V | Dong Guan | Golden CEL Ba | ttery Co.,Ltd. | .* |
| Battery Type | Rechargeable Single Cell Battery | Nominal Voltage | 3.7V | Rated Capacity | 800mAh |
| Limited Charge Voltage | 4.2V | Charge Current | 800mA | Max. Continuous Charge Current | 800mA |
| End Charge Current 16mA | | Cut-off Voltage | 3.0V | Max. Discharge Current | 800mA |
| Cells Number 1pcs | | Cell Model 803035 | | Cell Rated Capacity | 800mAh |
| Manufacturer of Cell | | Dong Guan | Golden CEL Bat | ttery Co.,Ltd. | teres a |
| Use | | Client Date | 2016-12-28 | Completing Date | 2017-01-18 |

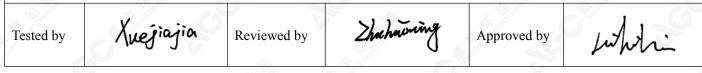
2. Standard

《United Nations Recommendations On The Transport Of Dangerous Goods, Manual Of Tests And Criteria》 (ST/SG/AC.10/11/Rev.5/Amend.1&Amend.2)

3. Test Item And Conclusion

| Item | Samples Number | Standard | Conclusion |
|------------------------|----------------|----------|------------|
| Altitude simulation | A G | <u> </u> | Pass |
| Thermal test | | | Pass |
| Vibration | Z1~Z10 | | Pass |
| Shock | the the state | | Pass |
| External Short Circuit | Ser Barrow | UN 38.3 | Pass |
| Crush | Z11~Z15 | | Pass |
| Overcharge | Z16~Z19 X1~X4 | | Pass |
| Forced discharge | Z20~Z29 X5~X14 | | Pass |

The submitted battery and component cell were complied with UN Manual of Tests and Criteria, Part III, sub-section 38.3.



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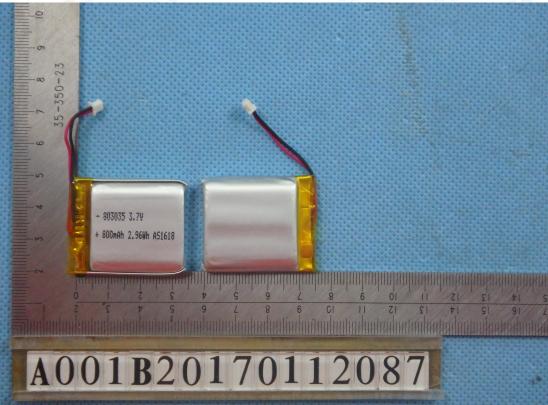
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Notes:

Z1~Z10, Z16~Z19: Batteries at first cycle in fully charged states;
Z11~Z15: Cells at first cycle at 50% of the design rated capacity;
Z20~Z29: Cells at first cycle in fully discharged states;
X1~X4: Batteries after 50 cycles ending in fully charged states;
X5~X14: Cells after 50 cycles ending in fully discharged states.

4. Photos Of Sample



Authenticate the photo on original report only

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5. Test Method And Verdict

| Clause | Requirements | Result | Verdict |
|----------|---|---|----------|
| 38.3.4 | Procedure | the set | .0 |
| ÷ C | Test 1: Altitude simulationTest cells and batteries shall be stored at a pressure of 11.6kPa or less for at least six hour at ambient temperature (20±5°C)Cells and batteries meet this requirement if there is no mass loss, no leakage, | No leakage, no venting, no disassemble, no | A A A A |
| 38.3.4.1 | no venting, no disassemble, no rupture and no fire and if the open circuit voltage of each test cell or battery after testing is not less than 90% of its voltage immediately prior to this procedure. The requirement relating to voltage is not applicable to test cells and batteries at fully discharged states. | rupture and no fire. The data see Table1. | Р |
| | Test 2: Thermal test | 1 | a Contra |
| 38.3.4.2 | Test cells and batteries are to be stored for at least six hours at a test temperature equal to $72\pm2^{\circ}$ C, followed by storage for at least six hours at a test temperature equal to $-40\pm2^{\circ}$ C. The maximum time interval between test temperature extremes is 30 minutes. This procedure is to be repeated 10 times, after which all test cells and batteries are to be stored for 24 hours at ambient temperature ($20\pm5^{\circ}$ C). For large cells and batteries the duration of exposure to the test temperature extremes should be at least 12 hours. | No leakage, no venting, no disassemble, no rupture and no fire. The data | Р |
| | Cells and batteries meet this requirement if there is no mass loss, no leakage, no venting, no disassemble, no rupture and no fire and if the open circuit voltage of each test cell or battery after testing is not less than 90% of its voltage immediately prior to this procedure. The requirement relating to voltage is not applicable to test cells and batteries at fully discharged states. | see Table2. | |
| | Test 3: Vibration | | |
| 38.3.4.3 | Cells and batteries are firmly secured to the platform of the vibration machine without distorting the cells in such a manner as to faithfully transmit the vibration. The vibration shall be a sinusoidal waveform with a logarithmic sweep between 7Hz and 200Hz and back to 7Hz traversed in 15 minutes. This cycle shall be repeated 12 times for a total of 3 hours for each of three mutually perpendicular mounting positions of the cell. One of the directions of vibration must be perpendicular to the terminal face. The logarithmic frequency sweep is as follows: from 7Hz a peak acceleration of $1g_n$ is maintained until 18Hz is reached. The amplitude is then maintained at 0.8mm (1.6mm total excursion) and the frequency increased until a peak acceleration of $8g_n$ occurs (approximately 50Hz). A peak acceleration of $8g_n$ is | No leakage, no venting, no disassemble, no rupture and no fire. The data see Table3. | P |

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| Clause | Requirements | Result | Verdict |
|---|---|--|-------------|
| - CC | Cells and batteries meet this requirement if there is no mass loss, no leakage, no venting, no disassemble, no rupture and no fire and if the open circuit voltage of each test cell or battery after testing is not less than 90% of its voltage immediately prior to this procedure. The requirement relating to voltage is not applicable to test cells and batteries at fully discharged states. | | |
| the second se | Test 4: Shock | and the second | |
| 38.3.4.4 | Test cells and batteries shall be secured to the testing machine by means of a rigid mount which will support all mounting surfaces of each test battery. Each cell or battery shall be subjected to a half-sine shock of peak acceleration of $150g_n$ and pulse duration of 6 milliseconds. Each cell or battery shall be subjected to three shocks in the positive direction followed by three shocks in the negative direction of three mutually perpendicular mounting positions of the cell or battery for a total of 18 shocks. However, large cells and large batteries shall be subjected to a half-sine shock of peak acceleration of $50g_n$ and pulse duration of 11 milliseconds. Each cell or battery is subjected to three shocks in the positive direction followed by three shocks of peak acceleration of $50g_n$ and pulse duration of 11 milliseconds. Each cell or battery is subjected to three shocks in the positive direction followed by three shocks in the negative direction of each of three mutually perpendicular mounting positions of the cell for a total of 18 shocks. | No leakage, no venting, no disassemble, no rupture and no fire. The data see Table 4. | P |
| | Cells and batteries meet this requirement if there is no mass loss, no leakage, no venting, no disassemble, no rupture and no fire and if the open circuit voltage of each test cell or battery after testing is not less than 90% of its voltage immediately prior to this procedure. The requirement relating to voltage is not applicable to test cells and batteries at fully discharged states. | | C. A. S. A. |
| | Test 5: External Short Circuit | | |
| 38.3.4.5 | The cell or battery to be tested shall be temperature stabilized so that its external case temperature reaches $55\pm2^{\circ}$ and then the cell or battery shall be subjected to a short circuit condition with a total external resistance of less than 0.1 ohm at $55\pm2^{\circ}$. This short circuit condition is continued for at least one hour after the cell or battery external case temperature has returned to $55\pm2^{\circ}$. The cell or battery must be observed for a further six hours for the test to be concluded. | No disassemble, no rupture and no fire. The data | Р |
| | Cells and batteries meet this requirement if their external temperature does not exceed 170° C and there is no disassemble, no rupture and no fire within six hours of this test. | see Table 5. | 20 |

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| Clause | Requirements | Result | Verdict |
|----------|--|--|---------|
|) | Test 6: Impact / Crush | the solution | .0 |
| 38.3.4.6 | Impact (applicable to cylindrical cells not less than 18mm in diameter) The Samples cell or component cell is to be placed on a flat smooth surface. A 15.8mm \pm 0.1mm diameter, at least 6cm long, or the longest dimension of the cell, whichever is greater, Type 316 stainless steel bar is to be placed across the centre of the Samples. A 9.1kg \pm 0.1kg mass is to be dropped from a height of 61 \pm 2.5cm at the intersection of the bar and Samples in a controlled manner using a near frictionless, vertical sliding track or channel with minimal drag on the falling mass. The vertical track or channel used to guide the falling mass shall be oriented 90 degrees from the horizontal supporting surface The test Samples is to be impacted with its longitudinal axis parallel to the flat surface and perpendicular to the longitudinal axis of the 15.8mm \pm 0.1mm diameter curved surface lying across the centre of the test Samples. Each Samples is to be subjected to only a single impact. | N/A | N/A |
| | Cells and component cells meet this requirement if their external temperature does not exceed 170° C and there is no disassemble and no fire during the test and within six hours after this test. | | |
| 38.3.4.6 | Crush (applicable to prismatic, pouch, coin/button cells and cylindrical cells less than 18mm in diameter) A cell or component cell is to be crushed between two flat surfaces. The crushing is to be gradual with a speed of approximately 1.5cm/s at the first point of contact. The crushing is to be continued until the first of the three options below is reached. (a) The applied force reaches $13kN \pm 0.78kN$; (b) The voltage of the cell drops by at least 100mV; or (c) The cell is deformed by 50% or more of its original thickness. Once the maximum pressure has been obtained, the voltage drops by 100mV or more, or the cell is deformed by at least 50% of its original thickness, the pressure shall be released. A prismatic or pouch cell shall be crushed by applying the force to the widest side. A button/coin cell shall be crushed by applying the force on its flat surfaces. For cylindrical cells, the crush force shall be applied perpendicular to the longitudinal axis. Each test cell or component cell is to be subjected to one crush only. The test Samples shall be observed for a further 6h. The test shall be conducted using test cells or component cells that have not previously been subjected to other tests. | No disassemble, and no fire. The data see Table 6. | P |
| | Cells and component cells meet this requirement if their external temperature does not exceed 170° C and there is no disassemble and no fire during the test and within six hours after this test. | C State | S. S. |

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| Clause | Requirements | Result | Verdict |
|------------|---|--|---------|
| | Test 7: Overcharge | \$ ² | 30 |
| 38.3.4.7 | The charge current shall be twice the manufacturer's recommended maximum continuous charge current. The minimum voltage of the test shall be as follows: (a) When the manufacturer's recommended charge voltage is not more than 18V, the minimum voltage of the test shall be the lesser of two times the maximum charge voltage of the battery or 22V. (b) When the manufacturer's recommended charge voltage is more than 18V, the minimum voltage of the test shall be 1.2 times the maximum charge voltage. Tests are to be conducted at ambient temperature; the duration of the test shall be 24 hours. | No disassemble, and no fire. The data see Table 7. | P |
| the second | Rechargeable batteries meet this requirement if there is no disassemble and no fire during the test and within seven days after the test. | C. C. | V |
| | Test 8: Forced discharge | V A | |
| 38.3.4.8 | Each cell shall be forced discharged at ambient temperature by connecting it in series with a 12 V D.C. power supply at an initial current equal to the maximum discharge current specified by the manufacturer, The specified discharge current is to be obtained by connecting a resistive load of the appropriate size and rating in series with the test cell. Each cell shall be forced discharged for a time interval (in hours) equal to its rated capacity divided by the initial test current (in ampere) | No disassemble and no fire. The data see Table 8. | P |
| | Primary or rechargeable cells meet this requirement if there is no disassemble and no fire during the test and within seven days after the test. | in the | *. |

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| Table 1 | ٠ | the state | Altitude | simulation | 2 | | Р |
|---------|--|-----------|----------|---|-----------|---------|------------------|
| 43 | Pre | -test | Afte | r test | Mass loss | Voltage | Whether leakage, |
| No. | MassVoltageMassVoltageMass ioss(g)(V)(g)(V)(%) | 16. | loss (%) | venting, disassemble rupture, fire (Y/N) | | | |
| Z1 | 15.226 | 4.196 | 15.226 | 4.195 | 0.002 | 0.02 | N |
| Z2 | 15.251 | 4.196 | 15.250 | 4.196 | 0.007 | 0.00 | N 🖉 |
| Z3 | 15.335 | 4.197 | 15.333 | 4.196 | 0.013 | 0.02 | N |
| Z4 | 15.155 | 4.194 | 15.153 | 4.193 | 0.013 | 0.02 | N |
| Z5 | 15.187 | 4.197 | 15.185 | 4.196 | 0.013 | 0.02 | N |
| Z6 | 15.214 | 4.193 | 15.213 | 4.193 | 0.007 | 0.00 | N |
| Z7 | 15.213 | 4.197 | 15.212 | 4.196 | 0.007 | 0.02 | N |
| Z8 | 15.143 | 4.198 | 15.142 | 4.196 | 0.007 | 0.05 | N |
| Z9 | 15.238 | 4.197 | 15.238 | 4.196 | 0.002 | 0.02 | N |
| Z10 | 15.241 | 4.195 | 15.240 | 4.195 | 0.007 | 0.00 | N |

6. Data

| Table 2 | | Р | | | | | |
|---------|-------------|----------------|-------------|----------------|---------------|---------------------|--|
| | Pre-test | | Afte | After test | | Valtaga | Whether leakage, |
| No. | Mass (g) | Voltage (V) | Mass (g) | Voltage (V) | Mass loss (%) | Voltage loss (%) | venting, disassemble, rupture, fire (Y/N) |
| Z1 | 15.226 | 4.195 | 15.225 | 4.156 | 0.007 | 0.93 | N |
| Z2 | 15.250 | 4.196 | 15.249 | 4.155 | 0.007 | 0.98 | N |
| Z3 | 15.333 | 4.196 | 15.332 | 4.161 | 0.007 | 0.83 | N |
| Z4 | 15.153 | 4.193 | 15.152 | 4.155 | 0.007 | 0.91 | N |
| Z5 | 15.185 | 4.196 | 15.184 | 4.153 | 0.007 | 1.03 | N |
| Z6 | 15.213 | 4.193 | 15.212 | 4.157 | 0.007 | 0.86 | N |
| Z7 | 15.212 | 4.196 | 15.210 | 4.157 | 0.013 | 0.93 | N |
| Z8 | 15.142 | 4.196 | 15.141 | 4.160 | 0.007 | 0.86 | N |
| Z9 | 15.238 | 4.196 | 15.235 | 4.163 | 0.020 | 0.79 | N |
| Z10 | 15.240 | 4.195 | 15.238 | 4.159 | 0.013 | 0.86 | N |

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| Table 3 | | | Vibr | ation | | | Р |
|---------|-------------|----------------|-------------|--------|-------------|----------|--|
| 4 | Pre | -test | Afte | r test | - Mass loss | Voltage | Whether leakage, |
| No. | Mass (g) | Voltage (V) | Mass (g) | 0 | (%) | loss (%) | venting, disassemble, rupture, fire (Y/N) |
| Z1 | 15.225 | 4.156 | 15.224 | 4.155 | 0.007 | 0.02 | Ν |
| Z2 | 15.249 | 4.155 | 15.248 | 4.155 | 0.007 | 0.00 | N 🐇 |
| Z3 | 15.332 | 4.161 | 15.331 | 4.160 | 0.007 | 0.02 | N |
| Z4 | 15.152 | 4.155 | 15.150 | 4.155 | 0.013 | 0.00 | N |
| Z5 | 15.184 | 4.153 | 15.183 | 4.152 | 0.007 | 0.02 | N |
| Z6 | 15.212 | 4.157 | 15.210 | 4.155 | 0.013 | 0.05 | N |
| Z7 | 15.210 | 4.157 | 15.210 | 4.156 | 0.000 | 0.02 | N |
| Z8 | 15.141 | 4.160 | 15.140 | 4.160 | 0.007 | 0.00 | N |
| Z9 | 15.235 | 4.163 | 15.234 | 4.161 | 0.007 | 0.05 | N |
| Z10 | 15.238 | 4.159 | 15.235 | 4.158 | 0.020 | 0.02 | N |

| Table 4 | | Р | | | | | |
|---------|-------------|----------------|-------------|----------------|-----------|----------|--|
| | Pre | -test | Afte | r test | Mass loss | Voltage | Whether leakage, |
| No. | Mass (g) | Voltage (V) | Mass (g) | Voltage (V) | (%) | loss (%) | venting, disassemble, rupture, fire (Y/N) |
| Z1 | 15.224 | 4.155 | 15.223 | 4.154 | 0.007 | 0.02 | N |
| Z2 | 15.248 | 4.155 | 15.247 | 4.153 | 0.007 | 0.05 | N |
| Z3 | 15.331 | 4.160 | 15.330 | 4.159 | 0.007 | 0.02 | N |
| Z4 | 15.150 | 4.155 | 15.150 | 4.155 | 0.000 | 0.00 | N |
| Z5 | 15.183 | 4.152 | 15.183 | 4.151 | 0.000 | 0.02 | N |
| Z6 | 15.210 | 4.155 | 15.210 | 4.153 | 0.000 | 0.05 | N |
| Z7 | 15.210 | 4.156 | 15.210 | 4.155 | 0.000 | 0.02 | N |
| Z8 | 15.140 | 4.160 | 15.139 | 4.160 | 0.007 | 0.00 | N A |
| Z9 | 15.234 | 4.161 | 15.233 | 4.160 | 0.007 | 0.02 | N |
| Z10 | 15.235 | 4.158 | 15.232 | 4.158 | 0.020 | 0.00 | N |

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| Table 5External short circuit | | Р |
|-------------------------------|-----------------------|--|
| No. | Peak temperature (°C) | Whether disassemble, rupture, fire (Y/N) |
| Z1 | 54.8 | N |
| Z2 | 54.7 | N |
| Z3 | 55.2 | N |
| Z4 | 54.9 | N |
| Z5 | 55.4 | N |
| Z6 | 54.5 | N |
| Z7 | 54.6 | N |
| Z8 | 55.0 | N |
| Z9 | 54.8 | N |
| Z10 | 55.3 | N |

| Crush | Р | | |
|-----------------------|---|--|--|
| Peak temperature (°C) | Whether disassemble, fire (Y/N) | | |
| 24.9 | N | | |
| 25.0 | N | | |
| 24.8 | N O | | |
| 24.6 | N | | |
| 25.2 | N | | |
| | Peak temperature (°C) 24.9 25.0 24.8 24.6 | | |

| Overcharge | V | Р | |
|------------|------------------|--|---|
| Whether | disassemble, fir | e (Y/N) | |
| 87 | N | 0 | V |
| | N | | |
| | Ν | V | P. A. S. |
| O V | Ν | A marca | 67 |
| 0 | N | the des | .0 |
| V | N | C) ^{Yar} | 0 |
| AT A COM | N | | V |
| Se G | N | | Ar and |
| | | Whether disassemble, fin N N N N N N N N | Whether disassemble, fire (Y/N) N N N N N N N N N N N N N N N N N N |

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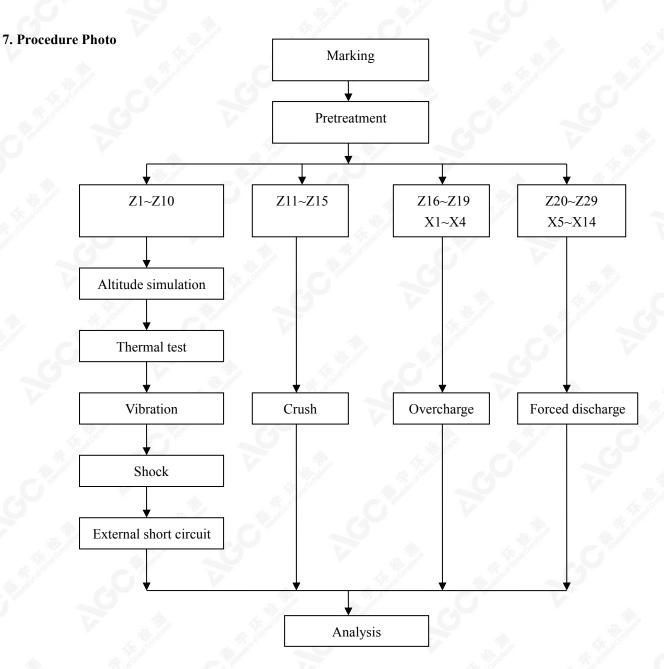


| Table 8 | Forced discharge | | Р | |
|---------|---------------------------------|---|-------------|---------|
| No. | Whether disassemble, fire (Y/N) | | | |
| Z20 | | N | C. W. | |
| Z21 | 1 | N | 6 | |
| Z22 | 1. M. M. | N | | |
| Z23 | 21 21 | N | 1 | 5 |
| Z24 | | N | 2. 10/ | |
| Z25 | | N | the second | 20 |
| Z26 | | N | 14/ | ~ |
| Z27 | 10 | N | 0 | V |
| Z28 | | N | | |
| Z29 | 57 | Ν | ALL STREET | 1 |
| X5 | O V | Ν | 4 | 1000 |
| X6 | 0 | N | All Charles | G |
| X7 | V . 3 | N | | 2 |
| X8 | 45 1 1 1 1 | N | V | . */ |
| X9 | 14,8 | Ν | | AR STOR |
| X10 | | Ν | ٠. | the set |
| X11 | | N | | |
| X12 | 29/ | N | 6 | |
| X13 | A. 4. 50 | Ν | 1 | |
| X14 | . */ _*/ | N | V | * |

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8.Test Apparatus

| AGC-BT-E015 | Vacuum chamber | AGC-BT-E074 | Temperature circulation chamber |
|-------------|--|------------------|--|
| AGC-RE-E062 | Impact test instrument | AGC-BT-E070 | Vibration test instrument |
| AGC-BT-E009 | Battery short circuit testing instrument | AGC-BT-E010 | Battery short circuit temperature instrument |
| AGC-BT-E011 | Battery extrusion test instrument | AGC-BT-E045~E052 | DC power supply |
| AGC-BT-E001 | Battery test system | AGC-BT-E053~E056 | DC power supply |
| AGC-SA-E018 | Temperature recorder | AGC-SA-E075 | Electronic balance |
| AGC-SA-E093 | Digital multimeter | | |

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