| | | | <u> </u> | |
|---|---|---|---|------------------------|
| | TEST REPO IEC 62660 | DRT F3 | | |
| Secondary lithium-ion cel Part | lls for the pro | pulsion of el Juirements | ectric road ver | nicles |
| Report Number: | PNS220224158 (| 1001 | | |
| Date of issue | 2022-03-18 | ~ | ~ | |
| Total number of pages | 13 | alles . | (1) B | < |
| Testing Laboratory | GUANGDONG U | TL CO., LTD. | | |
| Address: | Lianding Testing I | Building, No.18 Ce | nter Road of Yayuan | . |
| | industrial Zone, N | ancheng District, I | ongguan, Guangdon | g, China |
| Tested by (name + signature): | Sophie Wu | Sophier | Vy 🔊 | |
| Reviewed by (name + signature): | lvy Bi | ly B: | 5 | |
| Approved by (name + signature): | Andy Huang | Dody H | mang s | < |
| Applicant's name: | EVE Power Co., L | .td. | V | |
| Address | No. 68, Jingnan A | venue, Duodao Zo | one, Jingmen, Hubei, | China |
| Manufacturer's name | EVE Power Co., L | .td. | ~ | |
| Address | No. 68, Jingnan A | venue, Duodao Zo | one, Jingmen, Hubei, | China |
| Factory's name | EVE Power Co., L | .td. | 0 | |
| Address | No. 68, Jingnan A | venue, Duodao Zo | one, Jingmen, Hubei, | China |
| Test specification: | | | | |
| Standard | IEC 62660-3:2016 | | | |
| Test procedure | N/A | O_{\uparrow} | \bigcirc | < |
| Non-standard test method | N/A | | | |
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| Fest item description: | Lithium-ion Powe | r Cell | | |
| Trade Mark | EVE | | | |
| Model/Type reference | LF280K | A | A | |
| | | | | |

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Page 2 of 13 List of Attachments (including a total number of pages in each attachment): - Photos documentation (1 page) Summary of testing: Tests performed (name of test and test **Testing location:** clause): **GUANGDONG UTL CO., LTD.** cl. 5.2 Capacity Lianding Testing Building, No.18 Center Road of cl. 6.2.1 Vibration Yayuan Industrial Zone, Nancheng District, Dongguan, Guangdong, China cl. 6.2.2 Mechanical shock cl. 6.2.3 Crush cl. 6.3.1 High temperature endurance cl. 6.3.2 Temperature cycling cl. 6.4.1 External short circuit cl. 6.4.2 Overcharge cl. 6.4.3 Forced discharge cl. 6.4.4 Internal short circuit test Summary of compliance with National Differences (List of countries addressed): N/A \boxtimes The product fulfils the requirements of EN 62660-3:2016. Copy of marking plate: The artwork below may be only a draft. The use of certification marks on a product must be authorized by the respective NCBs that own these marks. Note: Cells used in the manufacture of a battery need not be marked.

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Report No.: PNS220224158 01001

| Test item particulars | | | | |
|--|---|---|---|----------------|
| | : | | | |
| Classification of installation and | use: 🖾 BEV | application | HEV application | |
| Recommend charging voltage | : 3.65V | | | |
| Recommend charging current | : 140A | Qu | Q.r. | |
| Recommend charging method d manufacturer | eclared by the Charging : 3.65V co 14A at a | g the cell with 14 onstant voltage un mbient 25°C±2°C | 0A constant current til the current reduc | t and es to |
| Discharge current (1/3 It A) for B | EV 93.333A | | A | |
| Discharge current (1 It A) for HE | 🖌: N/A | SIL . | an | < |
| Specified end of discharge volta | ge : 0°C <t≤6< td=""><td>65°C: 2.5V; -20°C<</td><td>:T≤0°C: 2.0V</td><td></td></t≤6<> | 65°C: 2.5V; -20°C< | :T≤0°C: 2.0V | |
| Charging temperature range | : 0~65°C | | | |
| Possible test case verdicts: | | | | |
| - test case does not apply to the | est object N/A | | | |
| - test object does meet the requir | ement P (Pass) | O_{r} | O_{r} | |
| - test object does not meet the re | quirement: F (Fail) | | | |
| Testing | · · · · · · | | | |
| Date of receipt of test item | : 2022-02 | -23 | 1 Alexandre | |
| Date (s) of performance of tests | : 2022-03 | -02 to 2022-03-17 | Qu | |
| | | 02 10 2022 00 11 | | |
| General remarks: | | | | |
| "(See Enclosure #)" refers to additi "(See appended table)" refers to a | onal information appended t table appended to the repor eport relate only to the objec | to the report. t. t tested. | | |
| This report shall not be reproduced | I except in full without the wi | a decimal conara | te testing laboratory. | |
| This report shall not be reproduced Throughout this report a com | I except in full without the wi ma / ⊠ point is used as th | ne decimal separa | itor. | |
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General product information:

The cell consists of the positive electrode plate, negative electrode plate, separator, electrolyte and case. The positive and negative electrode plates are housed in the case in the state being separated by the separator.

The main features of the cell are shown as below:

| Product name | Lithium ion cell |
|----------------------------------|---|
| Model | LF280K |
| Capacity | 280Ah |
| Nominal voltage | 3.2V |
| Rated charge current | 140A |
| Standard discharge current | 140A |
| Maximum charge current | 280A |
| Maximum discharge current | 280A |
| Rated charge voltage | 3.65V |
| Maximum Charge voltage | 3.65V |
| Final discharge voltage | 0°C <t≤65°c: -20°c<t≤0°c:="" 2.0v<="" 2.5v;="" td=""></t≤65°c:> |
| Charging temperature upper limit | 0°C ~ 65°C |
| Discharge temperature range | -20°C ~ 65°C |
| Weight (g) | 5400±300g |
| External dimensions (mm) | Approx. L 173.7±0.5mm x T 72.0±1.0mm x H 207.2±0.5mm |





Report No.: PNS220224158 01001

IEC 62660-3

Page 5 of 13

Clause

Requirement + Test

Result - Remark

Verdict

| 4 | TEST CONDITIONS | | Р |
|--------|---|-----------|-----|
| 4.1 | General | | Р |
| | The details of the instrumentation used have been provided in any report of results | | Ρ |
| 4.2 | Measuring instruments | | Р |
| 4.2.1 | Range of measuring devices | an an | Р 🔇 |
| | The instruments used enable the values of voltage and current measured. The range of these instruments and measuring methods chosen so as to ensure the accuracy specified for each test | | Р |
| Chille | For analogue instruments, this implies that the readings taken in the last third of the graduated scale | and and | Р |
| | Any other measuring instruments may be used provided they give an equivalent accuracy | | Р |
| 4.2.2 | Voltage measurement | | Р |
| | The resistance of the voltmeters used at least 1 $M\Omega/V$ | | Р |
| 4.2.3 | Current measurement | | Р |
| A | The entire assembly of ammeter, shunt and leads are of an accuracy class of 0,5 or better | | Р |
| 4.2.4 | Temperature measurements | Qn Qn | Р |
| | The cell temperature measured by use of a surface temperature measuring device capable of an equivalent scale definition and accuracy of calibration as specified in 4.2.1 | | Ρ |
| 3 | The temperature measured at location which most closely reflects the cell temperature | | P |
| | The temperature may be measured at additional appropriate locations, if necessary | | Ρ |
| 4.2.5 | Other measurements | | Р |
| CHE | Other values including capacity and power may be measured by use of a measuring device, provided that it complies with 4.3 | STAR STAR | Р |
| 4.3 | Tolerance | | Р |
| | Parameter measurement tolerances | | Ρ |
| 4.4 | Test temperature | | Р |
| > | If not otherwise defined, before each test the cell stabilized at the test temperature for a minimum of | | P |

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| | IEC 02000-5 | | |
|----------|--|--------------------------|---------|
| Clause | Requirement + Test | Result - Remark | Verdict |
| Chill | This period can be reduced if thermal stabilization is reached. Thermal stabilization is considered reached if after one interval of 1 h, the change of cell temperature is lower than 1 K | Star Star | P |
| | Unless otherwise stated in this standard, cells tested at room temperature using the method declared by the manufacturer | | Р |
| <u> </u> | | | |
| 5 | ELECTRICAL MEASUREMENT | | P |
| 5.1 | General charge conditions | | Р |
| | Unless otherwise stated in this standard, prior to the electrical measurement test, the cell charged as follows | | P |
| <u>ر</u> | Prior to charging, the cell discharged at room temperature at a constant current of 1/3 It(A) for BEV application and 1 It(A) for HEV application down to an end-of-discharge voltage specified by the manufacturer. Then, the cell charged according to the charging method declared by the manufacturer at room temperature | BEV application | P |
| 5.2 | Capacity | | Р |
| | Before the SOC adjustment in 5.3, the capacity of the test cell confirmed the rated value in accordance with the following steps. Step 1 – The cell charged in accordance with 5.1 Step 2 – The cell discharged at the room temperature at a constant current of 1/3 It(A) for BEV application and 1 It(A) for HEV application to the end-of-discharge voltage that is provided by the manufacturer Step 3 – Measure the discharge endurance duration until the specified end-of-discharge voltage is reached, and calculate the capacity of cell | (See appended table 5.2) | P |
| 53 | expressed in Ah up to three significant figures | | P |
| 0.0 | The test colle obstrand as appointed, and discharged | PEV opplication | |
| ST. | at a constant current of 1/3 It(A) for BEV application and 1 It(A) for HEV application for $(100 - n) / 100 \times 3$ h for BEV application and for $(100 - n) / 100 \times 1$ h for | | |

| 6 | SAFETY TESTS | | | | |
|----------|--------------|-------|------|-------------|-----|
| 6.1 | General | All's | AS S | AN CONTRACT | P A |
| <u> </u> | | U | 0 | 9 | 9 |

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| Clause | Requirement + Test | Result - Remark | Verdict |
|---------|--|----------------------------|---------|
| - Chill | The tests performed on cells that are not more than six months old. The number of cells under each test can be determined according to the agreement between the manufacturer and the customer. A cell block may be used for testing in place of a single cell according to the agreement between the manufacturer and the customer. | STALE STALE | P |
| Dr | Each test is end with the one-hour observation period, unless otherwise specified in this standard | | < |
| 6.2 | Mechanical tests | | Р |
| 6.2.1 | Vibration | | Р |
| | The test performed in accordance with 6.1.1.1 of IEC62660-2:2010 | | Р |
| (JP) | During the test, the cell is exhibit no evidence of leakage, venting, rupture, fire or explosion | (See appended table 6.2.1) | Р |
| 6.2.2 | Mechanical shock | | Р |
| | The test performed in accordance with 6.1.2.1 of IEC62660-2:2010 | | Р |
| | During the test, the cell is exhibit no evidence of leakage, venting, rupture, fire or explosion | (See appended table 6.2.2) | Р |
| 6.2.3 | Crush | | Р |
| | Adjust the SOC of cell to100 % for BEV application and 80 % for HEV application | | Р |
| | The cell placed on an insulated rigid flat supporting surface, and applied a force with a crushing tool made of a solid material in the shape of a round or semicircular bar, or in the shape of a sphere or hemisphere with a 150 mm diameter. It is recommended to use the round bar to crush a cylindrical cell, and the sphere for a prismatic cell, including a flat or pouch cell. The force for the crushing applied in a direction nearly perpendicular to the layered face of the positive and negative electrodes inside cell. The force applied to the approximate centre of cell. The crush speed less than or equal to 6 mm/min | | Р |
| | The force released when an abrupt voltage drop of one-third of the original cell voltage occurs, or a deformation of 15 % or more of the initial cell dimension occurs, or a force of 1000 times of the weight of the cell is applied, whichever comes first. The cell under observation for 24 h or until the cell temperature declines 80 % of the maximum temperature rise, whichever is sooner During the test, the cell is exhibit no evidence of | (See appended table 6.2.3) | P |
| | fire or explosion | | |
| 6.3 | Thermal test | | I P |



| Clause | Requirement + Test | Result - Remark | Verdict |
|-------------|---|----------------------------|---------|
| 510038 | | | veruici |
| | Adjust the SOC of cells to 100 % for BEV application or 80 % for HEV application | BEV application | Р |
| 8 | The cell, stabilized at room temperature, placed on a gravity or circulation air convention oven. The oven temperature raised at 5 K/min to 130 °C \pm 2 K. The cell is remain at this temperature for 30 min. Then, after the heater is turned off, the cell observed for 1 h in the oven | | Р |
| | During the test, the cell is exhibit no evidence of fire or explosion | (See appended table 6.3.1) | Р |
| 6.3.2 | Temperature cycling | | Р |
| 1 Alexandre | The test performed in accordance with 6.2.2.1.1 of IEC 62660-2:2010 | | P |
| \bigcirc | During the test, the cell is exhibit no evidence of leakage, venting, rupture, fire or explosion | (See appended table 6.3.2) | Р |
| 6.4 | Electrical tests | | Р |
| 6.4.1 | External short circuit | | Р |
| > | The test performed in accordance with 6.3.1.1 of IEC 62660-2:2010 | | P |
| | During the test, the cell is exhibit no evidence of fire or explosion | (See appended table 6.4.1) | Р |
| 6.4.2 | Overcharge | | Р |
| 40 | Adjust the SOC of the cell to 100 % | and and | Р |
| | Continue charging the cell beyond 100 % SOC with a charging current of 1 It(A) for BEV application or 5 It(A) for HEV application at room temperature using a power supply sufficient to provide the constant charging current. The overcharge test discontinued when the voltage of cell reaches 120 % of the maximum charging voltage specified by the manufacturer, or the quantity of electricity applied to the cell reaches the equivalent of 130 % SOC, whichever comes first | BEV application | P |
| | During the test, the cell is exhibit no evidence of fire or explosion | (See appended table 6.4.2) | Р |
| 6.4.3 | Forced discharge | Or Or | Р |
| | Adjust the SOC of the cell to 0 % | | Р |
| > | Continue discharge the cell beyond 0 % SOC at 1 It discharge current at room temperature. The forced discharge test discontinued when the absolute value of the voltage of the cell reaches 25 % or less of the normal voltage specified by the manufacturer, or the cell is discharged for 30 min, whichever is sooner | | P |
| | During the test the cell is exhibit no evidence of leakage, venting, rupture, fire or explosion | (See appended table 6.4.3) | Р |
| A | | | A |



| | IEC 62660-3 | | |
|--------|---|----------------------------|---------|
| Clause | Requirement + Test | Result - Remark | Verdict |
| 6.4.4 | Internal short circuit test | | Р |
| 20 | The test performed on the cell in accordance with 7.3.2 b) of IEC 62619 with modification | Que Que | Р |
| | Alternative test may be selected if the criteria are satisfied and agreed between the customer and the supplier | | Р |
| 22 | During the test, the cell is exhibit no evidence of fire or explosion | (See appended table 6.4.4) | P |

| ANNEX A | OPERATING REGION OF CELLS FOR SAFE USE | |
|---------|--|-----|
| A.1 | General | Р |
| A.2 | Charging conditions for safe use | P P |
| A.2.1 | General | Р |
| A.2.2 | Consideration on charging voltage | Р |
| A.2.3 | Consideration on temperature | Р |
| A.2.3.1 | General | P |
| A.2.3.2 | High temperature range | Р |
| A.2.3.3 | Low temperature range | Р |
| A.3 | Example of operating region | Р |

| ANNEX B | EXPLANATION FOR THE INTERNAL SHORT-CIRCUIT TEST | | | | | |
|---------|---|--|---|--|--|--|
| B.1 | General concept | | Р | | | |
| B.2 | Internal short circuit caused by particle contamination | | Р | | | |





| Clause | Requ | irement + Test | | Result - Re | emark | Verdict |
|------------------------|-------------------|----------------------------|--------------------|--|----------------------|------------------------------------|
| A. | TAB | LE: Critical comp | onents informati | on | u. | Р |
| Object/pa | rt no. | Manufacturer/ trademark | Type/model | Technical data | Standard | Mark(s) of conformity ¹ |
| Cell | | EVE Power Co., Ltd. | LF280K | 3.2V, 280Ah | IEC 62660-3: 2016 | Tested with appliance |
| -Positive electrode | | EVE Power Co., Ltd. | LFP | LiFePO₄ | | |
| -Negative electrode | | EVE Power Co., Ltd. | С | Graphite | | |
| -Separator | | EVE Power Co., Ltd. | PE | Polyethylene | | |
| -Electrolyte | • | EVE Power Co., Ltd. | | LiPF ₆ + carbonate solvent + additive | | |
| Supplemei | ntary i evider | nformation: | preed level of com | npliance. See OD-CB20 | 39 | |
| | | <u></u> | <u>,</u> | , | | |
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Clause

Requirement + Test

Result - Remark

Verdict

| 5.2 | TABL | E: Capacity | | | | | Р |
|--------|--------------|-------------------------------------|--------------------------|------------------------------|---------------|---------------|------------------|
| Mod | lel/Sample | End-of- discharge voltage (V) | Discharge current (A) | Fully charged voltage (V) | Capacity (Ah) | Res | sults |
| s | Line-3-1 | 2.50 | 93.333 | 3.65 | 293.47 | More t cap | han the acity |
| S | Line-3-2 | 2.50 | 93.333 | 3.65 | 290.09 | More t cap | han the acity |
| S | Line-3-3 | 2.50 | 93.333 | 3.65 | 286.68 | More t cap | han the acity |
| Supple | ementary inf | ormation: | <u>A</u> | | <pre>s</pre> | <u>_</u> | |

| 6. | 2.1 | TABLE | : Vibration | | | Ρ |
|----|----------|-------|----------------------------|---------------------------|---|-------|
| | Model/Sa | mple | Voltage before test (V) | Voltage after Test (V) | Results | |
|) | SLine-3 | 3-4 | 3.410 | 3.402 | No leakage, No venting, No rupture, No fir explosion | e, No |
| | SLine-3 | 8-5 | 3.407 | 3.401 | No leakage, No venting, No rupture, No fire, N explosion | |
| | SLine-3 | 8-6 | 3.410 | 3.404 | No leakage, No venting, No rupture, No fir explosion | e, No |

| 6.2.2 | TABL | E: Mechanical sho | ck | P | |
|----------------------------|------------|---|---------------------------|---|----|
| Model | /Sample | Voltage before test (V) | Voltage after test (V) | Results | |
| SLii | าe-3-7 | 3.401 | 3.401 | No leakage, No Venting, No rupture, No fire, N explosion | lo |
| SLine-3-8 3.403 3.402 No l | | No leakage, No Venting, No rupture, No fire, No explosion | | | |
| SLii | ne-3-9 | 3.399 | 3.398 | No leakage, No Venting, No rupture, No fire, N explosion | lo |
| Supplen | nentary in | formation: | | | |
| ~ | | ~ | <u> </u> | | |
| 80 | | AP2 | AN ² | All's All's | 1 |
| 6.2.3 | TABL | E: Crush | | Р | |

| 0.2.5 | IADLL | | | | • |
|--|-------|---------------------|--------|-----------------------|---|
| Model/Sa | mple | Voltage before test | (V) | Results | |
| SLine-3- | ·10 | 3.414 | | No fire, No explosion | |
| SLine-3- | ·11 | 3.407 | \sim | No fire, No explosion | ~ |
| Sur and a second | | 920 | 00 | | |



| кероп но. | : PN32202 | 24138 01001 | > IEC 62660-3 | 3 | rage 12 01 1 |
|-----------|--------------|-------------|------------------|--------------------|--------------|
| Clause | Requireme | ent + Test | | Result - Remark | Verdict |
| SLine- | 3-12 | 3.392 | | No fire, No explos | sion |
| Suppleme | ntary inform | nation: | Que | C. | Que |

| Р | 6.3.1 TABLE: High temperature endurance | | | | | |
|---|---|-----------------------------|----------------------------|--------------------------------------|--|--|
| | Results | Maximum temperature (°C) | Voltage before test (V) | Model/Sample | | |
| | No fire, No explosion | 131.0 | 3.409 | SLine-3-13 | | |
| | No fire, No explosion | 131.2 | 3.415 | SLine-3-14 | | |
| | No fire, No explosion | 131.3 | 3.420 | SLine-3-15 | | |
| > | No fire, No explosion | 131.3 | 3.420 | SLine-3-14 3.415 SLine-3-15 3.420 | | |

| | 6.3.2 | TABLE | : Temperature cycling | | Р |
|---|------------------|-----------|-------------------------|---|-----------|
| 2 | Model/Sa | mple | Voltage before test (V) | Results | 2 |
|) | SLine-3- | -16 | 3.333 | No leakage, No Venting, No rupture, No fire, No | explosion |
| | SLine-3-17 3.331 | | | No leakage, No Venting, No rupture, No fire, No | explosion |
| | SLine-3- | -18 | 3.330 | No leakage, No Venting, No rupture, No fire, No | explosion |
| | Supplement | tary info | ormation: | | ~ |
| | - 600 | | an | app app app | |

| 6.4.1 | 5.4.1 TABLE: External short circuit | | | | | |
|--------------------------------------|-------------------------------------|----------------------------|--------------------------|-----------------------------|-----------------------|--|
| Model/Sample Voltage before test (V) | | Voltage before test (V) | External resistance (mΩ) | Maximum temperature (°C) | Results | |
| SLine-3 | -19 🔇 | 3.415 | 4.8 | 45.3 | No fire, No explosion | |
| SLine-3 | -20 | 3.402 | 4.8 | 44.2 | No fire, No explosion | |
| SLine-3 | -21 | 3.411 | 4.8 | 55.5 | No fire, No explosion | |
| Supplemen | tary info | prmation: | | 0010 | | |

| \bigcirc | | \sim | | | \sim | \bigcirc | |
|------------|-------|----------------------------|-----------------------|---------------------|--------------------|---------------|-----------|
| 6.4.2 | TABLE | : Overcharge | | | | | Р |
| Model/Sa | mple | Voltage before test (V) | Charge Current (A) | Test voltage (V) | Test time (min) | Resu | ts |
| SLine-3 | -22 | 3.384 | 280 | 4.38 | 0.342min | No fire, No e | xplosion |
| SLine-3 | -23 | 3.347 | 280 | 4.38 | 0.433min | No fire, No e | explosion |
| SLine-3 | -24 | 3.364 | 280 | 4.38 | 0.383min | No fire, No e | explosion |

Supplementary information:



| 01 | D | | | | | Manufat | | | | | | | | | | | | | |
|------------|---------|----------------------------|-------------------------|---------|--|----------------|-------------|--|----|--|-----|--|--------|--|-----------|--|---------------|--|---|
| Clause | Require | ement + Test | | | Result - Remark | Verdict | | | | | | | | | | | | | |
| 6.4.3 | TABL | E: Forced discharg | 3 | | | | d discharge | | ge | | rge | | charge | | discharge | | ced discharge | | Р |
| Model/S | Sample | Voltage before test (V) | Terminal voltage (V) | | Results | | | | | | | | | | | | | | |
| SLine | -3-25 | 2.942 | 0.798 | No leak | age, No venting, No rupture explosion | e, No fire, No | | | | | | | | | | | | | |
| SLine-3-26 | | 2.983 | 0.798 | No leak | age, No venting, No rupture explosion | , No fire, No | | | | | | | | | | | | | |
| SLine | -3-27 | 2.962 | 0.798 | No leak | age, No venting, No rupture | e, No fire, No | | | | | | | | | | | | | |

| 6.4.4 | TABLE | : Internal short circuit test | | Р |
|------------|-------|-------------------------------|-----------------------|---|
| Model/S | ample | Voltage before test (V) | Results | |
| SLine- | 3-28 | 3.411 | No fire, No explosion | |
| SLine-3-29 | | 3.407 | No fire, No explosion | |
| SLine- | 3-30 | 3.405 | No fire, No explosion | |



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