Product	A41-V2.1	Specification No.	JMRI-A41-V2.1-D06-01	Version	A

Product Specification

Prismatic LFP Cells

Product： A41-V2.1

Drafted by	Product Design Checked by	Quality Checked by	Sales Checked by	Approved by

Customer's Requirement

Customers are requested to write out their requirement information and communicate with EVE in advanced. If the customer has some special applications or operating conditions different from those described in this document, EVE can design and manufacture the product according to the customer's special requirements.

张啸飞

Feb, 2025

EVE Power Co., Ltd

Content

Term Define

Terms	Definition
Cell	A basic unit device that directly combines chemical and electrical energy, including electrodes, separator, electrolytes, can and terminals, and is designed to be rechargeable.
Nominal Capacity	The discharge capacity tested with specified test method.
Nominal Energy	The discharge energy tested with specified test method.
OCV） Open circuit voltage	The voltage of the cell measured when unloaded or circuit is connected. The abbreviation is expressed by OCV.
DCR	The ratio of the voltage changes of the cell to the corresponding current change under working conditions, the abbreviation is DCR.
Standard Charge	The charge mode described in 4.5 of this specification.
Standard Discharge	The discharge mode described in 4.6 of this specification.
Environment temperature	Surrounding environmental temperature where the cell is located.
Cell surface temperature	Temperature measure by the temperature sensor installed at the center of cell surface.
Fresh cell	It refers to the cell within 3 months from the date of manufacture of the product.
State of charge	Under unloaded conditions, the ratio of the cell capacity state to the rated capacity measured in ampere-hours or watt-hours. The abbreviation is expressed by SOC. For example, if the capacity is 560Ah as 100% SOC, when the capacity is 0Ah, the SOC is 0%.
Cycle	The cell is charged and discharged in a cycle according to the prescribed charging and discharging standards. The cycle includes short-term normal charging or regenerative charging combination with discharging processes. In the charging process, sometimes there is only normal charging and no re-generative charging. The discharge can be formed by combining some partial discharges.
The unit of measurement	Voltage： “V” (Volt) Current： “A” (Ampere) Capacity： “Ah” (Ampere-Hour) Energy： “Wh” (Watt-Hour) Resistance： “Ω” (Ohm), “mΩ” (Milliohm) Temperature： “°C” (degree Celsius) length： “mm” (millimeter) Time： “s” (second) Frequency ： “Hz” (Hertz) Power ： “W” (Watt)

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1. Basic Information

1.1. Scope

This standard describes the product types, basic performance, test methods and precautions of square aluminum shell lithium iron phosphate batteries manufactured by EVE Power Co., Ltd.

1.2. Cell Classification and Model

1.2.1 Cell Classification Prismatic LFP Cell with Aluminum Shell

1.2.2 Cell Model A41-V2.1

2. Cell Specification

2.1. Nominal Specification

No.	Item	Specification	Remark
2.1.1	Standard Capacity	116 Ah	1/3C, 2.5~3.65V, 25±2℃
2.1.2	Standard Energy	373.5 Wh	1/3C, 2.5~3.65V, 25±2℃
2.1.3	Standard Voltage	3.22 V	1/3C, 25±2℃
2.1.4	Operation Voltage Range	2.5~3.65V	0℃＜T≤60℃
		2.0~3.65V	-30℃≤T≤0℃
2.1.5	Standard Charge Current	1/3C	25℃
2.1.6	Standard Discharge Current	1/3C	25℃
2.1.7	Maximum Continuous Charge Current	3C	25℃~45℃
2.1.8	Maximum Pulse Discharge Current	10C	5s, 25℃
2.1.9	Initial ACR	≤ 0.35 mΩ	Shipping SOC, AC, 1kHz

2.1.10	Initial DCR	≤ 0.8 mΩ		50%SOC, 2C, 10s, 25°C
2.1.11	Shipping SOC Status	15%~25%SOC		/
2.1.12	Monthly Self Discharge	≤ 3%		25°C, 50%SOC, 90days
2.1.13	Cell Weight	1985 g ± 30 g		With Insulation Film
2.1.14	Cell Dimension With Insulation Film)	Height(H)	119.0±0.5 mm	With Terminal
		Height(h)	116.8±0.5 mm	Without Terminal
		Length	148.6±0.5mm	
		Thickness	52.3±0.3mm	/
2.1.15	Operation Temperature	Charge	-20~55°C	
		Discharge	-30~60°C	
2.1.16	Storage Temperature	-40~60°C		/

Note: Testing the cell using the fresh cell.

2.2. Electrical Specification

2.2.1

Temp	－20°C	-10°C	0°C	10°C	25°C	45°C	55°C
capacity rate	80%	85%	90%	95%	100%	100%	100%
energy rate	70%	80%	85%	92%	100%	100%	100%

2.2.2

Temp	0°C	10°C	25°C	45°C
capacity rate	90%	95%	100%	100%
energy rate	85%	90%	100%	100%

2.2.3 discharge performance on different rate

Rate	1/3C	0.5C	1C	2C
Ah retention rate	100%	99%	98%	98%
Wh retention rate	100%	98%	96%	95%

2.2.4 Charging capacity characteristics at different rates

Rate	1/3C	0.5C	1C	2C
Ah retention rate	100%	99%	98%	97%
Wh retention rate	100%	99%	98%	97%

2.2.5 Discharge peak power characteristics

10s Peak discharge power /W								
SoC/T	5%	10%	20%	30%	40%	50%	70%	95%
-30°C	122	144	197	424	431	437	540	669
-20°C	143	219	390	548	603	789	921	987
-15°C	162	411	586	713	784	921	1075	1151
-10°C	221	603	781	877	965	1053	1228	1316
0°C	251	658	976	1096	1206	1316	1535	1645
10°C	398	731	1252	1413	1559	1706	1998	2144
15°C	506	804	1445	1633	1803	1974	2315	2485
20°C	697	1040	1637	1852	2047	2242	2632	2827
25°C	1125	1697	2015	2289	2415	2485	2797	2924
35°C	1251	2012	2355	2485	2485	2485	2884	2942
45°C	1566	2485	2485	2485	2485	2485	3088	3127

30s Peak discharge power/W								
SoC/T	5%	10%	20%	30%	40%	50%	70%	95%
-30°C	97	115	158	339	345	350	432	535
-20°C	114	175	312	439	482	632	737	789
-15°C	130	329	468	570	627	737	860	921
-10°C	177	482	625	702	772	842	982	1053
0°C	200	526	781	877	965	1053	1228	1316
10°C	318	585	1002	1131	1248	1365	1598	1715
15°C	405	643	1156	1306	1442	1579	1852	1988
20°C	558	832	1310	1481	1637	1793	2105	2261
25°C	900	1357	1612	1831	1932	1988	2238	2339
35°C	1001	1610	1884	1988	1988	1988	2307	2353
45°C	1253	1988	1988	1988	1988	1988	2470	2502

60s Peak discharge power/W								
SoC/T	5%	10%	20%	30%	40%	50%	70%	95%
-30°C	85	101	138	266	301	306	378	468
-20°C	100	154	273	384	422	553	645	691

-15℃	113	288	410	499	549	645	752	806
-10℃	155	422	473	614	675	737	860	921
0℃	175	461	683	768	844	921	1075	1151
10℃	278	512	877	989	1092	1194	1399	1501
15℃	354	563	1011	1143	1262	1382	1620	1740
20℃	488	728	1146	1296	1433	1569	1842	1979
25℃	788	1188	1410	1602	1690	1740	1958	2047
35℃	876	1408	1649	1740	1740	1740	2019	2059
45℃	1096	1740	1740	1740	1740	1740	2161	2189

2.2.6 Charging peak power characteristics

10s Peak charge power/W								
SoC/T	5%	20%	50%	60%	70%	80%	90%	95%
-30℃	25	18	14	14	13	12	10	7
-20℃	184	161	115	100	84	69	31	23
-15℃	276	242	173	150	127	104	53	39
-10℃	368	322	230	200	179	174	126	94
0℃	972	673	529	473	409	378	274	204
10℃	1270	926	734	662	569	530	383	286
15℃	1548	1140	909	826	755	700	487	364
20℃	1943	1463	1191	1098	1060	1032	662	494
25℃	2656	2025	1731	1651	1472	1428	1034	771
35℃	2997	2301	1962	1877	1699	1653	1198	895
45℃	3156	2653	2251	2161	1974	1929	1401	1047

30s Peak charge power/W								
SoC/T	5%	20%	50%	60%	70%	80%	90%	95%
-30℃	21	15	12	12	11	10	7	4
-20℃	147	129	92	80	68	55	24	18
-15℃	221	193	138	120	101	83	42	31
-10℃	295	258	184	160	143	139	101	75
0℃	748	538	424	378	327	302	219	163
10℃	1016	740	587	530	455	424	307	229
15℃	1238	912	727	661	604	560	390	291
20℃	1554	1170	953	879	848	826	530	395
25℃	2125	1620	1385	1320	1177	1143	827	617
35℃	2398	1841	1570	1502	1359	1322	958	716
45℃	2525	2122	1800	1729	1580	1544	1121	837

60sPeak charge power/W								
SoC/T	5%	20%	50%	60%	70%	80%	90%	95%
-30℃	19	14	11	10	10	8	5	3
-20℃	94	113	81	70	59	48	21	16
-15℃	193	169	121	105	89	73	37	27

-10℃	258	226	161	140	125	122	88	66
0℃	680	471	371	331	286	265	192	143
10℃	889	648	514	464	398	371	268	200
15℃	1083	798	636	579	529	490	341	255
20℃	1360	1024	834	769	742	723	464	346
25℃	1769	1418	1212	1155	1030	1000	724	540
35℃	2098	1611	1373	1314	1190	1157	838	626
45℃	2209	1857	1575	1513	1382	1351	981	733

2.2.7 Lifespan characteristics

#	Item		Standard
1	Cycle (Small and medium inspection)	25℃,FC/1C，SOC:0-100%，2.5~3.65V	capacity ≥90%@1000cycle DCR ≤10% capacity ≥80%@2500cycle DCR ≤20% capacity ≥70%@3500cycle DCR ≤40%
2		45℃,FC/1C，SOC:0-100%，2.5~3.65V	capacity ≥90%@500cycle DCR ≤10% capacity ≥80%@1200cycle DCR ≤20% capacity ≥70%@1800cycle DCR ≤40%
3	Expansion force cycle	25℃,FC/1C，SOC:0-100%，2.5~3.65V	/
4	Cycle Life	25℃，SOC：60% time:300d	30d capacity ≥97%, 30d capacity ≥98%, 30d DCR ≤5%; 150d capacity ≥94%, 150d capacity ≥95%, 150d DCR ≤10%; 300d capacity ≥92%, 300d capacity ≥94%, 300d DCR ≤20%;
5		25℃，SOC：100% time: 300d	30d capacity ≥97% 30d capacity ≥98% 30d DCR ≤5% 150d capacity ≥94% 150d capacity ≥95% 150d DCR ≤10% 300d capacity ≥92% 300d capacity ≥94%

			300d DCR ≤20%
6		45℃，SOC：100%time：300d	30d Ah rate≥95% 30d Ah rate≥96% 30d DCR ≤10% 150d Ah rate≥92% 150d Ah rate ≥93% 150d DCR ≤15% 300d Ah rate ≥89% 300d Ah rate≥91% 300d DCR ≤30%
7		55℃，SOC：100%；时间：300d	30d Ah rate ≥94% 30d Ah rate≥95% 30d DCR ≤15% 150d Ah rate ≥89% 150d Ah rate≥90% 150d DCR ≤25% 300d Ah rate≥83% 300d Ah rate≥85% 300d DCR ≤40%

Note: Testing the cell using the fresh cell.

2.3. Safety and Reliability Specification

No.	Items	Specification	Test Condition
2.3.1	Over Discharge	No fire, No explosion	GB 38031-2020
2.3.2	Over Charge	No fire, No explosion	GB 38031-2020
2.3.3	External Short Circuit	No fire, No explosion	GB 38031-2020
2.3.4	Heating	No fire, No explosion	GB 38031-2020
2.3.5	Temperature Cycling	No fire, No explosion	GB 38031-2020
2.3.6	Crush	No fire, No explosion	GB 38031-2020
2.3.7	Acupuncture	No fire, No explosion	GB 38031-2020

Note: External short circuit test needs to be carried out with fixture. Before carrying out other tests or referring to other standard tests, it is necessary to confirm the specific test process and precautions with EVE.
Note: Testing the cell using the fresh cell.

2.4. Cell Drawing

See Appendix.

2.5. Appearance

The cell should have none of obvious scratches, cracks, rust stains, discoloration, or electrolyte leakage, which may adversely affect commercial value of the cell.

3. Testing Conditions

3.1. Environmental Conditions

Unless otherwise specified, the test should be carried out in an environment with a temperature of 25℃ ± 5℃, a relative humidity of 15%-90% RH, and an atmospheric pressure of 86 kPa to 106 kPa. The ambient temperature mentioned in this specification refers to 25℃±2℃.

3.2. Measurement Instrument

The accuracy of measuring device should meet the following requirements:

A. Voltage measuring device: ±0.05%

B. Current measuring device: ±0.05%

C. Temperature measuring device: ±1℃

D. Dimension measuring device: ±0.01mm

E. Weight measuring device: ±0.01g.

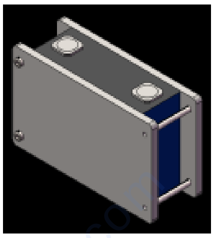
4. Testing Methods

4.1. Testing Fixture Installation

Place the cell (~20%~30%SOC) covered with blue film (material: PET, thickness 0.1mm) and top film (material: PC, thickness 0.5mm) in the middle of the clamp, and the initial compression force is (300 kgf±20kgf) as shown in

Figure 1 and Figure 2.

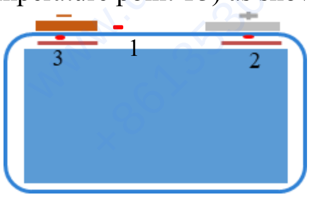
Schematic diagram of cell coating



Side view of cell shaft

4.2. Temperature Monitor

If there are no special requirements, the temperature sensor will be pasted during test as below. When collecting temperature on the cell surface, the temperature collection point in the NTC (temperature point T1), positive terminal (temperature point T2), and negative terminal (temperature point T3) as shown in the following figure.



Cell temperature monitoring diagram

4.3. Dimension

Testing Instrument： Automatic wrapping machine

Testing Method:

a)

Use the CMM test device test the diameter and height respectively;

b)

Test conditions: 300kgf ± 20kgf.

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4.4. Weight

Test Instrument: Electronic scale

Test Method: Use the electronic scale to measure the weight of the cell. Record the weight value.

4.5. Standard Charge

At 25±2°C, charged with constant current 1/3C to 3.65V, then continue charged with constant voltage until the current reach to 0.05C, rest 30min.

4.6. Standard Discharge

At 25±2°C, discharged with constant current 1/3C to 2.5V, rest 30min.

SOC Adjust Method

4.7. If there are no special requirements, the SOC will be adjusted as follows. At 25±2℃, the cell was discharged with 1/3C to 2.5V. Repeat 3 times according to standard charge mode and standard discharge mode. Record the third discharge capacities, recorded as C_0.

Adjust SOC: charging with standard charge mode, discharge with 1/3C_0 to target SOC, rest 60min.

Target SOC = (1- Target SOC) * C_0

4.8. Initial ACR

At 25±2°C, connecting the cell's positive and negative terminal with the Voltage Internal Resistance Tester, which the 1kHz frequency.

4.9. Initial Capacity and Energy

The initial discharge capacity and energy are tested according to the follow step.

Cell is discharged with standard discharge, then cycled with standard charge and standard discharge model until 3 cycles, calculate the average of the 3rd cycle discharge capacity and energy. The calculated value is recorded as the initial discharge capacity and energy.

4.10. Initial DCR

DCR = (V_1-V_2) / 1C mΩ。

At 25±2°C, adjust the cell to 50%SOC, according to the SOC adjust method. Record the voltage as V_1 at the end of 60min rest. Then, discharge the cell with 1C for 10s, record the voltage as V_2 at the end of 10s discharge. The sampling interval was 0.1s during the 10s discharge.

Calculate DCR: DCR = (V_1-V_2) / 1C mΩ.

4.11. Monthly Self Discharge

① SOC adjust: Adjust SOC to 50%SOC, according to the chapter 4.7.

② Capacity test: At 25±2°C, 1/3C discharge to 2.5V, rest 30min, record the discharge capacity as C_m.

③ SOC adjust: At 25±2°C, full charged cell (charge with standard charge mode) discharged with 1/3C_0, cutoff by 50%C_0.

④ Storage: At 25 ±2°C, storage 30 days.

⑤ Capacity test: At 25±2°C, 1/3C discharge to 2.5V, rest 30min, record the discharge capacity as C_{m+i} (i=1, 2, 3, the 1st storage record as C_{m+1}, the i time recorded as C_{m+i}).

⑥ Repeat step ③ to step ⑤, the total repeat is 3 times.

Calculate monthly self discharge: 1-（$C_{m+i}/C_{m+(i-1)}$）, is the i monthly seft discharge.

4.12. Rate Discharge Capacity

At 25±2°C, cell discharged with standard discharge mode, charged with standard charge mode. Then standard discharged, record the discharge capacity as C_1.

Standard charged the cell, 1C discharge to 2.5V, rest 30min, record the discharge capacity as C_2.

Standard charged the cell, 2C discharge to 2.5V, rest 30min, record the discharge capacity as C_3.

Calculate rate discharge capacity ratio: C_3/C_2

4.13. -20℃ Discharge Capacity

At 25±2°C, cell discharged with standard discharge mode, charged with standard charge mode,record the discharge capacity as C_4. Charged with standard charged.

At -20±2°C, rest 8h. Then discharge to 2.0V with 1/3C, rest 30min, record the discharge capacity as C_5.

Calculate -20℃ discharge capacity ratio: C_5/C_4

4.14. 55℃ Discharge Capacity

At 25±2°C, cell discharged with standard discharge mode, charged with standard charge mode,record the discharge capacity as C_6. Charged with standard charged.

At 55±2°C, rest 4h. Then discharge to 2.5V with 1/3C, rest 30min, record the discharge capacity as C_7.

Calculate 55℃ discharge capacity ratio: C_7/C_6

4.15. 25℃ Capacity Retention and Recovery Capability

At 25±2°C, cell discharged with standard discharge mode, charged with standard charge mode,record the discharge capacity as C_8. Charged with standard charged.

At 25±2°C, rest 30 days. Then discharge to 2.5V with 1/3C, rest 30min, record the discharge capacity as C_9.

Cycled with standard charge and standard discharge model until 3 cycles, calculate the average of the 3 cycle discharge capacity, recorded as C_{10}.

Calculate capacity retention: C_9/C_8

Calculate capacity recovery: C_{10}/C_8

4.16. 55℃ Capacity Retention and Recovery Capability

At 25±2°C, cell discharged with standard discharge mode, charged with standard charge mode,record the discharge capacity as C_{11}. Charged with standard charged.

At 55±2°C, rest 30 days. At 25±2°C， discharge to 2.5V with 1/3C, rest 30min, record the discharge capacity as C_{12}.

Cycled with standard charge and standard discharge model until 3 cycles, calculate the average of the 3 cycle discharge capacity, recorded as C_{13}.

Calculate capacity retention: C_{12}/C_{11}

Calculate capacity recovery: C_{13}/C_{11}

4.17. 19min Fast Charging(FC) Cycle Life at 25 ℃

① Initial performance test:

Initial capacity: testing the cell with the initial capacity and energy test method (4.9), obtain the capacity.

Initial DCR: testing the cell with the initial DCT test method (4.10), obtain the DCR.

② Cycle:

Charge: At 25±2℃, charge with 20min FC step from 10%SOC to 80%SOC, rest 60min.

Discharge: At 25±2℃, 1C constant current discharge to 2.5V, rest 30min.

Cycle: 100cycles. After every 100cycles, testing the initial performance test, record the capacity and DCR, calculate the capacity retention and DCR increase ratio.

4.18. Safety and Reliability Performance

All tests are carried out with reference to the national standard GB38031-2020 and UN38.3 standards. The fixture diagram for external short-circuit test is shown below.

No.	Items	Test Method
1	Over Discharge	GB 38031-2020
2	Over Charge	GB 38031-2020
3	External Short Circuit	GB 38031-2020
4	Heating	GB 38031-2020
5	Temperature Cycling	GB 38031-2020
6	Crush	GB 38031-2020
7	Acupuncture	GB 38031-2020

5. Recommended BMS Design Parameters

The following is the cell performance data for reference only during the BMS design. The actual use is subject to the usage mode and conditions agreed by both parties.

5.1. SOC~OCV

25℃	SOC	5%	10%	20%	30%	40%	50%	60%	70%	80^%	90%	95%
	OCV	3.184	3.205	3.253	3.285	3.288	3.290	3.322	3.329	3.330	3.333	3.334

5.2. Charge Recommend unit：C-Rate

SOC	0%	5%	10%	20%	30%	40%	50%	60%	70%	80%	90%	95%	99%	100%
-30℃	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-20℃	0.10	0.10	0.10	0.10	0.05	0.05	0.05	0.03	0.03	0.02	0.02	0.02	0.02	0.02
-10℃	0.33	0.33	0.33	0.20	0.20	0.20	0.20	0.10	0.05	0.05	0.05	0.05	0.02	0.02
0℃	0.40	0.40	0.50	0.50	0.40	0.33	0.33	0.20	0.20	0.15	0.06	0.05	0.05	0.05
5℃	0.60	0.60	0.70	0.70	0.40	0.40	0.40	0.33	0.20	0.20	0.20	0.15	0.08	0.08
10℃	0.80	0.80	1.00	1.00	1.00	0.80	0.60	0.60	0.40	0.33	0.20	0.15	0.08	0.08
20℃	1.00	1.00	1.00	2.00	1.80	1.80	1.80	1.50	1.30	1.00	0.50	0.33	0.25	0.20
25℃	1.00	1.00	1.00	2.50	2.40	2.40	2.40	2.30	2.10	1.65	1.00	0.50	0.33	0.20
35℃	1.00	1.00	1.00	2.50	2.40	2.40	2.20	2.20	2.00	1.50	1.00	0.50	0.33	0.20
40℃	1.00	1.00	1.00	2.50	2.40	2.40	2.20	2.20	2.00	1.50	1.00	0.50	0.33	0.20
45℃	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.50	0.33	0.20
50℃	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.20
55℃	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10

6. Safety Limits

6.1. Voltage Limits

Items	Category	Value	Remark
Charging Voltage	Primary-level	3.67 V	BMS alarm
	Secondary-level	3.70 V	Reduce cell charge current or power
	Three-level	3.80 V	Cut off the current and force the cell to stop working
Discharging Voltage	Primary-level	2.4V (T＞0℃) 1.97 V (T≤0℃)	BMS alarm
	Secondary-level	2.3 V (T＞0℃) 1.95 V (T≤0℃)	Reduce cell discharge current or power
	Three-level	2.1 V (T＞0℃) 1.9 V (T≤0℃)	Cut off the current and force the cell to stop working

6.2. Temperature Limits

Items	Value	Remark
Recommended Operating Temperature Range	10℃~45℃	Recommended cell usage temperature range.
Maximum operating temperature	60℃	If the cell surface temperature exceeds the operating temperature range, the power needs to be reduced to 0.
Minimum operating temperature	-40℃	
Maximum safety temperature	65℃	If the cell surface temperature exceeds the safety temperature range, it will cause irreversible and permanent damage to the cell. The user should not use it exceed the safety temperature range.
Minimum safety temperature	-35℃	

7. Cell Operation Instruction and Precautions

7.1. Product End-life Management

The cell life is limited. Customers should establish an effective tracking system to monitor and record the internal resistance and capacity of each cell during its life. The measurement method and calculation method of internal resistance and capacity need to be discussed and agreed between the customer and EVE Power Co., Ltd. When the internal resistance of the cell in use exceeds 150% of the initial internal resistance of the cell or the capacity is less than 60% of the nominal capacity（25℃）or the end of cell life which both customer and EVE agree on is coming, the cell should not to be operated. Violation of this requirement will exempt EVE Power Co., Ltd. from its responsibility for product quality assurance in accordance with the product sales agreement and this specification.

7.2. Long-term Storage

After charging the cell, it should be used as soon as possible to avoid loss of available capacity due to self discharge. If storage is required, the cell needs to be stored in a dry, ventilated, and non corrosive gas free warehouse under low SOC conditions. The recommended storage conditions are: 15%~25% SOC, 0-25 ℃, ≤ 60% RH.

If the cell is not used for a long time in the warehouse, it need to be recharged periodically. The recharge cell cycle reference is as follows:

Cell Recharge Cycle		
Actual Storage Temperature	Recharge Periodically	Recharge Method
0≤T≤25℃	6 个月 6 months	Cycle with standard charge and discharge current, then switch to storage SOC

Note: Record the date of the last actual charge and discharge or recharge of the cell.

7.3. Transportation

Cell for shipping should be packed in boxes with the SOC of 15%~25%. The severe vibration, impact, extrusion, sun and rain should be prevented during shipping. Applicable methods of transportation include truck, train, ship, airplane, etc.

7.4. Operation Precautions

- It is forbidden to inversely charge. Correctly connect the positive and negative poles of the cell, and reverse charging is strictly prohibited.
- It is forbidden to over-discharge. During the normal use of the cell, in order to prevent over-discharge, the cell should be charged regularly to maintain the voltage above 2.5 V.
- It is strictly forbidden to immerse the cell in water. When it is not in use, it should be placed in a cool and dry environment.

- It is forbidden to use and leave the cell next to heat and high temperature sources, such as fire, heater, etc.
- Please use a special charger for lithium-ion batteries when charging.
- During usage, it is strictly prohibited to reverse the positive and negative terminals of the cell.
- Do not throw the cell in the fire or heater.
- It is forbidden to use metal to directly connect the positive and negative terminals of the cell to short-circuit.
- It is forbidden to transport or store the cell with metal, such as hairpins, necklaces, etc.
- It is forbidden to knock or throw, step on, or bend the cell.
- It is forbidden to directly solder the cell.
- It is forbidden to directly pierce the cell with nails or other sharp objects.
- It is forbidden to use or place the cell under high temperature (under hot sunlight), such as in a car under direct sunlight or in a hot day.
- It is forbidden to use it in places with strong static electricity and strong magnetic fields.
- If the cell leaks and the electrolyte splashes on the skin, clothes, eyes, mouth, nose, etc., immediately wash the affected area with running water and send to a doctor for treatment immediately, otherwise it will cause serious harm to the human body.
- If the cell emits peculiar smell, heat, discoloration, deformation, or any abnormality during use, storage, or charging, stop using it.

7.5. Disclaimer

If the product demanding party does not use the provisions in this manual, which causes social impact and affects the reputation of EVE Power Co., Ltd., EVE Power will pursue the responsibility of the product demanding party. According to the degree of impact on EVE Power, the product demand party must provide compensation to EVE Power.

8. Other

These specifications shall be governed by the laws of the People's Republic of China, excluding its conflict specifications. Any dispute arising from this specification document or the performance process shall be settled by both sides through friendly negotiation. If no agreement can be reached through negotiation, either side may file a lawsuit with the people's court where EVE Power Co., Ltd. is located.

This specification is a Chinese English translation version. In case of any ambiguity between the Chinese and English agreed terms, the Chinese content shall prevail.

This specification shall come into force upon being signed and sealed by both parties and shall be valid until

In duplicate, both copies shall have the same legal effect.

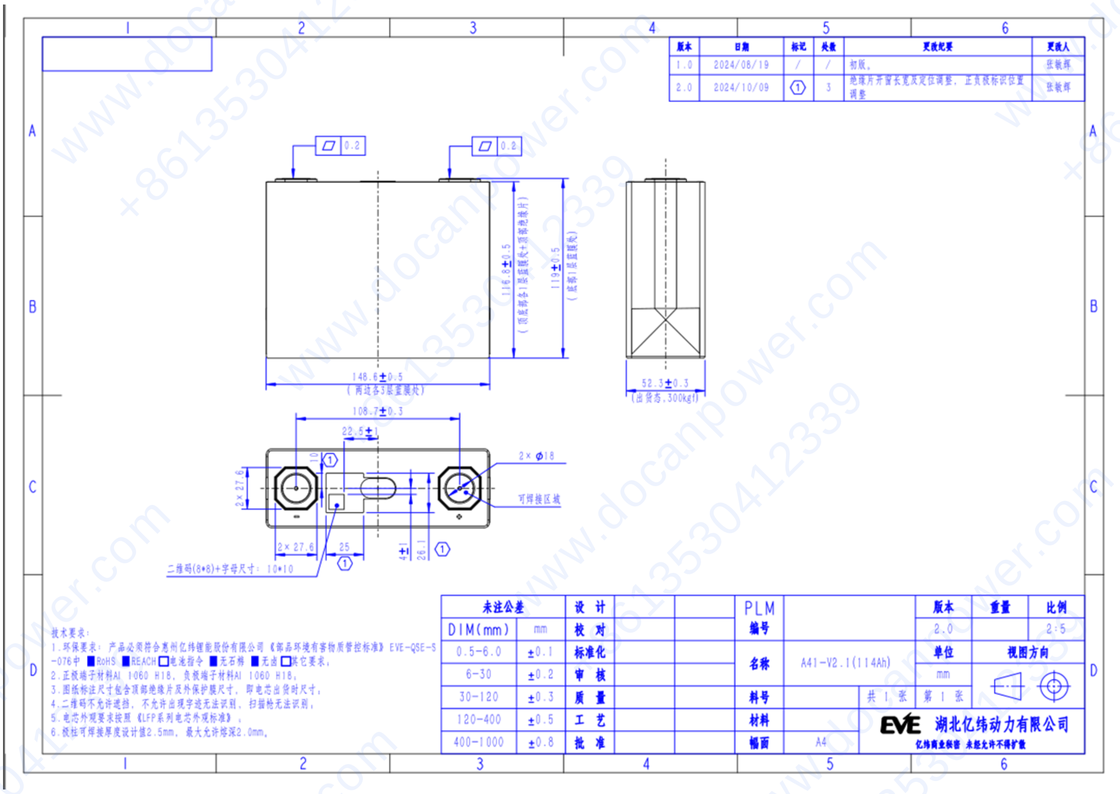
For matters not covered in this specification, both parties shall separately sign a supplementary agreement which shall have the same legal effect as this specification document. No provision of this specification shall be modified or altered without a written document signed by both parties.

Product	A41-V2.1	Specification No.	JMRI-A41-V2.1-D06-01	Version	A

9. Contact Information

Address: EVE Power Co., Ltd., No .68 Jingnan Avenue, Cuodao District, Jingmen High-tech Zone, Jingmen City, Hubei Province.

A Appendix A: Cell Dimension Diagram



Cell Dimension Diagram