



Type 型号	C40	Spec No. 规格书编号	RD-C40-S01-LF	Edition 版本	A
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Product Delivery Specification

产品交付规格书

型号 (Type) : C40

Designed 设计制作	Designer Checked 产品设计审核	QC Checked 品质审核	Sales Checked 销售审核	Approved 批准
江敏				

客户接收栏 Customer Acceptance Column
公司名称 (Name) :
批 准 (Approved) :
日 期 (Date) :

2021 年 11 月

EVE Energy CO., LTD.
惠州亿纬锂能股份有限公司



Type 型号	C40	Spec No. 规格书编号	RD-C40-S01-LF	Edition 版本	A
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客户要求 (Customer Request)

NO. 序号	Special Requirements 特殊要求	Specification 标准
1		
2		
3		
4		
5		

客户代码 (Customer Code) : _____

签 字 (Signature) : _____

日 期 (Date) : _____

Type 型号	C40	Spec No. 规格书编号	RD-C40-S01-LF	Edition 版本	A
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术语定义 (Definition of Terms)

Terms 术语	Definition 定义
Product 产品	"Product" in this specification refers to 20 Ah rechargeable cylindrical lithium ion battery produced by Huizhou EVE Energy Co., Ltd. 本规格书中的“产品”是指惠州亿纬锂能股份有限公司生产的 20Ah 可充电圆柱锂离子电池。
customer 客户	Refers to the buyer in the product sales contract of Huizhou EVE Energy Co., Ltd. 指《惠州亿纬锂能股份有限公司产品销售合同》中的买方。
Rate 倍率 (C)	The ratio of the charge/discharge current to the rated capacity value. For example, the battery capacity is 20Ah, when the charging or discharging current is 20A, the charging or discharging rate is 1C. 充/放电电流与电池的额定容量值的比率。例如，电池容量为 20Ah，当充电或放电电流为 20A 时，则充电或放电倍率为 1C。
State of charge 荷电状态 (SOC)	Under no-load conditions, the ratio of the battery capacity state to the rated capacity measured in Ah or Wh. For example, if the capacity is 20Ah as 100% SOC, when the capacity is 0Ah, the SOC is 0%. 在无负载的情况下，以安培小时或者以瓦特小时为单位计量的电池容量状态与额定容量的比值。如：若将容量为 20Ah 的状态视为 100%SOC，则容量为 0Ah 时，SOC 为 0%。
Standard charging 标准充电	The charging mode described in Article 3.2 of this specification. 本规格书第 3.2 条所述的充电模式。
Standard discharging 标准放电	The discharging mode described in Article 3.3 of this specification. 本规格书第 3.3 条所述的放电模式。
DC Resistance 直流电阻 (DCR)	The ratio of the voltage changes of the battery to the corresponding current change under working conditions. 工作条件下电池的电压变化与相应的电流变化之比。
Units 测量单位	“V” (Volt) 伏特(V) “A” (Ampere) 安培(A) “Ah” (Ampere-Hour) 安培-小时(Ah) “Wh” (Watt-Hour) 瓦特-小时(Wh) “mΩ” (MilliOhm) 毫欧姆(mΩ) “°C” (degree Celsius) 摄氏度(°C) “mm” (millimeter) 毫米(mm) “s” (second) 秒(s) “Hz” (Hertz) 赫兹(Hz)

Type 型号	C40	Spec. NO 规格书编号	RD-C40-S01-LF	Edition 版本	A
------------	-----	-------------------	---------------	---------------	---

1. 基本信息 (Basic Information)

1.1. 前言 (Preface)

This Product Specification describes the technique requirements, test procedure and precaution notes of prismatic type Lithium-ion Rechargeable cell to be supplied to customer by Huizhou EVE Energy Co., Ltd.

本产品规格书规定了由惠州亿纬锂能股份有限公司生产的锂离子电芯技术要求，测试方法及注意事项。

1.2. 产品 (Product)

Cylindrical Lithium-ion Rechargeable cell

圆柱锂离子可充电电芯

1.3. 产品型号 (Type)

EVE——C 40

① ② ③

① The letter "EVE" defines Huizhou EVE Energy Co., LTD.

"EVE"代表惠州亿纬锂能股份有限公司。

② The letter "C" defines Aluminous Cylindrical Li-ion rechargeable cell.

"C"代表铝壳圆柱锂离子二次电芯。

③ The letter "40" defines the diameter of the cell.

"40"代表电芯直径为 40 mm。

2. 规格参数 (Specification Parameters)

2.1. 电池基本参数 (Basic Parameters)

Item 项目		Specification 标准			Remarks 备注
2.1.1.	Capacity@3.65~2.5V 容量@3.65~2.5V	Nominal Capacity 标称容量	20500	mAh	0.33C discharge 0.33C放电
		Minimum 最小容量	20000	mAh	0.33C discharge 0.33C放电

Type 型号	C40	Spec. NO 规格书编号	RD-C40-S01-LF		Edition 版本	A
2.1.2.	AC-IR 交流内阻		≤ 3	m Ω	AC 1 kHz, 出货状态30%SOC	
2.1.3.	DC-IR 直流内阻		≤ 8	m Ω	AC 1 kHz, 出货状态30%SOC	
2.1.4.	Cell Weight 电芯重量		370 $\pm$ 5	g		
2.1.5.	End-of-charge Voltage 充电限制电压		3.65	V		
2.1.6.	End-of-charge Current 充电截止电流		1000	mA	0.05C	
2.1.7.	End-of-discharge Voltage 放电截止电压		2.5 2.0	V	T>0°C T $\leq$ 0°C	
2.1.8.	Nominal Voltage 额定电压		3.2	V		
2.1.9.	Standard Charging current 标准充电电流		10000	mA	0.5C	
2.1.10.	Fast charge 快速充电电流		20000	mA	1C	
2.1.11.	Standard Discharge current 标准放电电流		10000	mA	0.5C	
2.1.12.	Max Continuous Discharge current 最大连续放电电流		60000	mA	3C	

2.2. 产品规格 (Product Specification)

Type 型号	C40	Spec. NO 规格书编号	RD-C40-S01-LF			Edition 版本	A
Item 项目		Specification 标准				Remarks 备注	
2.2.1.	Operating Temperature Range (surface temperature of cell) 操作温度范围 (电芯表面温度)	Charging Temp. 充电温度	0~5	℃	≤5000mA		
			5~10	℃	≤6000mA		
			10~15	℃	≤8000mA		
			15~45	℃	≤10000mA		
			45~55	℃	≤10000mA		
		Discharging Temp. 放电温度	-20~60	℃			
		Storage Temp. 存储温度	-20~50	℃	≤1 month ≤1个月		
			-20~45	℃	≤3 months ≤3个月		
			0~20	℃	≤1 year ≤1年		
		Storage Humidity 存储湿度	≤70	% RH			
2.2.2.	Appearance 外观	Without break, scratch, distortion, contamination, leakage and so on 无破裂、划痕、变形、污迹、电解液泄露等					
2.2.3.	Cell Dimension 电芯尺寸	Diameter: Φ40.56 ± 0.3 mm (coated) 直径：Φ40.56± 0.3 mm (包膜) Height : 135.0 ±0.5 mm (pole contained) 高度：135.0 ±0.5 mm (含极柱)					

3. 测试条件 (Test Conditions)

3.1. 标准测试条件 (Standard Test Conditions)

Unless otherwise specified, all tests stated in this Product Specification should be conducted at temperature $25\text{ }^{\circ}\text{C} \pm 2\text{ }^{\circ}\text{C}$ and humidity $65\% \pm 20\%$ RH.

若无特别要求，此规格书上的产品测试条件均为温度： $25\text{ }^{\circ}\text{C} \pm 2\text{ }^{\circ}\text{C}$ ；湿度： $65\% \pm 20\%$ RH。

3.2. 标准充电方式 (Standard Charge Method)

The "Standard Charge" means charging the cell at a constant current of 0.5C until the voltage is 3.65V, then charged at a constant voltage of 3.65V until its current is less than 0.05C. For test purpose, charging shall be performed at $25\text{ }^{\circ}\text{C} \pm 2\text{ }^{\circ}\text{C}$

“标准充电”即在环境温度为 $25\text{ }^{\circ}\text{C} \pm 2\text{ }^{\circ}\text{C}$ 的条件下，先以恒定电流 0.5C 充电至 3.65V，再以 3.65V 的恒压充电至电流小于 0.05C。

Type 型号	C40	Spec. NO 规格书编号	RD-C40-S01-LF	Edition 版本	A
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3.3. 标准放电方式 (Standard discharge method)

The "Standard Discharge" means discharging the cell at a constant current of 0.5C until the voltage is 2.5V. For test purpose, discharging shall be performed at 25 °C ±2 °C

“标准放电”即在环境温度为 25 °C ±2 °C 的条件下，以恒定电流 0.5C 放电到 2.5V。

4. 电池性能 (Cell Characteristics)

4.1. 电性能 (Electrical Characteristics)

	Test Item 测试项目	Test Method 测试方法	Criteria 检验标准					
4.1.1.	Discharge Rate Capabilities 倍率放电性能	The cell is measured with the various discharge currents in right table to the cut-off voltage after the standard charge(2.5V). 电芯按照右表不同电流放电至截止电压（2.5V）	Discharge Condition 放电条件					
			Discharge Current 放电电流	1C		2C		
			Relative Capacity Rate of 0.33C 相对 0.33C 放电容量比	≥95%		≥90%		
4.1.2.	Temperature Dependence of Discharge Capacity 不同温度放电性能	The cell is measured with discharge constant current of 1C to 2.5V with follow discharge temperature and rest for 6h after the standard charging. 电芯按右表不同温度搁置 6h，以 1C 电流放电至 2.5V (≤0℃时搁置 12h，1C 放电至 2.0V)	Discharge Temperature 放电温度	-20 ℃	-10 °C	0 ℃	25 ℃/ 45 °C	60 ℃
			Standing Time 搁置时间	12h	12h	12h	6h	6h
			Relative Capacity 相对容量	≥75%	≥85 %	≥90 %	≥100 %	≥95%
4.1.3.	100% SOC Temperature Charge Retention and Regain	Capacity after storage at certain time and temperature after the standard charged measured with discharge current of 0.5C to cut-off voltage. Then capacity after 0.5C charge and 0.5C	Storage Condition 存储条件	Retention 保持率		Regain 恢复率		
			28d, 25℃	≥95%		≥97%		

Type 型号	C40	Spec. NO 规格书编号	RD-C40-S01-LF		Edition 版本	A
	100% SOC 荷 电保持与恢 复能力	discharge for 3 cycles. 电芯按规定充电, 以不同温 度和时间存储后, 以 0.5C 电 流放电至截止电压测试容量 保持容量, 电芯以 0.5C 充电, 再以 0.5C 放电循环 3 次, 第 三次为恢复容量	7d, 60°C	≥92%	≥95%	
			28d, 60°C	≥85%	≥90%	
7.4	Normal Temperature Cycle Life 常温循环 寿命	Each cycle is an interval between 0.5C charges to 3.65V with 0.05C cut-off and 1.0C discharge with 2.5V cut-off at 25 °C ±2 °C. Capacity after 2000cycles. 电芯以 0.5C 电流充电至 3.65V, 0.05C 电流截止, 以 1.0C 电流放电至 2.7V, 25 °C ±2 °C 连续进行充放电循 环 2000 次后, 记录常温容量。	After 2000 cycles, Capacity retention ≥70% Initial capacity 2000 周后容量保持率 ≥70% 初始容量			
7.5	45°C Cycle Life 45°C 循环 寿命	Each cycle is an interval between 0.5C charges to 3.65V with 0.05C cut-off and 1.0C discharge with 2.7V cut-off at 45 °C ±2 °C. Capacity after 1000cycles at 25°C. 电芯以 0.5C 电流充电至 3.65V, 0.05C 电流截止, 以 1.0C 电流放电至 2.7V, 45 °C ±2 °C 连续进行充放电循 环 1000 次, 记录常温容量。	After 1000 cycles, Capacity retention ≥70% Initial capacity 1000 周后容量保持率 ≥70% 初始容量			

4.2. 安全测试 (Safety Test)

All below tests are carried out on the equipment with forced ventilation and explosion-proof device. Before test, all cells should be charged in accordance with 3.2, and stored 24h prior for testing.

下述试验应在有强制排风条件及防爆措施的装置内进行, 在试验前所有的电芯都按 3.2 规定标准充电方式充电, 并搁置 24h 后, 再进行以下试验。

Test Item 测试项目	Test Method 测试方法	Criteria 检验标准
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Type 型号	C40	Spec. NO 规格书编号	RD-C40-S01-LF	Edition 版本	A
4.2.1	Drop Test 跌落测试	Drop the positive or negative terminal of the cell down freely from the height of 1.5m to the cement ground once, and place it for at least 1h after the test for appearance inspection. 将电芯的正极或者负极端子朝下从 1.5m 高度处自由跌落到水泥地面上 1 次，实验后放置至少 1h 后进行外观检查。		No explosion, no fire 不爆炸、不起火	
4.2.2	Crush Test 挤压测试	A cell is to be crushed between two flat surfaces. The force for the crushing is to be applied by a hydraulic ram or similar force mechanism. The flat surfaces are to be brought in contact with the cells and the crushing is to be continued until voltage reaches 0V, the deformation reaches 15%, or the squeezing force reaches 100kN. 将电芯置于挤压设备的两个挤压平面之间，用液压油缸或类似的力挤压，挤压面与电芯接触，当电压达到 0V 或变形量达到 15%或挤压力达到 100kN 后停止挤压。		No explosion, no fire 不爆炸、不起火	
4.2.3	Heating Test 加热测试	A cell is to be heated in a gravity convection or circulating air oven. The temperature of the oven is to be raised at a rate of 5 °C ±2 °C per minute to a temperature of 130 °C ±2 °C and remain for 30 min and observed 1h. 将电芯放在电热鼓风干燥箱中加热，温度以 5 °C ±2 °C /min 的速率由室温升至 130 °C ±2 °C 并保持 30min，观察 1h。		No explosion, no fire 不爆炸、不起火	
4.2.4	Sea Water Immersion Test 海水浸泡	The cell was immersed in 3.5%NaCl solution (mass fraction, simulated seawater composition at normal temperature) for 2h. 将电芯完全浸入 3.5%NaCl 溶液（质量分数，模拟常温下的海水成分）中搁置 2h。		No explosion, no fire, no leakage 不爆炸、不起火、不漏液	
4.2.5	Low Pressure Test 低气压	The cell was placed in a low pressure box, the pressure in the test box was adjusted to 11.6kPa, the temperature was room temperature, then standing and observed for 1h. 电芯放入低气压箱中，调节试验箱中气压为 11.6kPa，温度为室温，静置 6h，观察 1h。		No explosion, no fire, no leakage 不爆炸、不起火、不漏液	
4.2.6	Over-charge Test 过充电测试	Stop charging after charging with constant 1C current until reaching 1.5 times of the charging termination voltage or charging time reaching 1.5h. 以 1C 电流恒流充电至达到充电终止电压的 1.5 倍，或充电时间达到 1.5h 后停止充电。		No explosion, no fire 不爆炸、不起火	
4.2.7	Short-circuit Test 短路测试	Short-circuit the standard charged cell by connecting positive and negative terminal by less 5 mΩ wire, until the cell case temperature has returned to be 20% less than peak temperature. 短接电芯的正负极，外部线路总电阻 < 5 mΩ，当电芯温度下降到比峰值低约 20%，结束实验。		No explosion, no fire 不爆炸、不起火	

Type 型号	C40	Spec. NO 规格书编号	RD-C40-S01-LF	Edition 版本	A
------------	-----	-------------------	---------------	---------------	---

5. 电池操作说明及注意事项 (Cell Operation Instruction and Precautions)

5.1. 电芯使用说明 (Cell Operation Instruction)

5.1.1. 充电 (Charging)

- * Charge the cell in an ambient temperature range of 0 °C to 55 °C.

电芯充电环境温度范围为 0 °C~55 °C。

- * Charge the cell at a constant current of 10000mA until 3.65V is attained. Charge rates greater than 20000mA are not recommended.

以 10000mA 的电流恒流充电至 3.65V，超过 20000mA 的电流建议不要使用。

- * Maintain charge voltage at 3.65V for 1hour (recommended for maximum capacity).

保持恒压 3.65V 充电 1 小时（最大容量）。

- * Cell must be charged with constant current-constant voltage method.

必须使用恒流恒压方式对电芯进行充电。

- * Do not continue to charge cell over specified time.

不要超过标准时间持续充电。

5.1.2. 温度梯度充电方案 (Temperature gradient charging scheme)

	SOC	Temperature Gradient 温度梯度				
		0°C~5°C	5°C~10°C	10°C~15°C	15°C~45°C	45°C~55°C
Charge Current 充电电流	100%	0.05C	0.05C	0.05C	0.05C	0.05C
	90%	0.15C	0.3C	0.4C	0.5C	0.5C
	80%	0.25C	0.3C	0.4C	0.5C	0.5C
	70%	0.25C	0.3C	0.4C	0.5C	0.5C
	60%	0.25C	0.3C	0.4C	0.5C	0.5C
	50%	0.25C	0.3C	0.4C	0.5C	0.5C
	40%	0.25C	0.3C	0.4C	0.5C	0.5C
	30%	0.25C	0.3C	0.4C	0.5C	0.5C
	20%	0.25C	0.3C	0.4C	0.5C	0.5C
	10%	0.25C	0.3C	0.4C	0.5C	0.5C
	0%	0.25C	0.3C	0.4C	0.5C	0.5C

5.1.3. 放电 (Discharging)

- * Recommended cut-off voltage to 2.7V. Recommended max continuous discharge current is 60000mA.

建议放电终止电压为 2.7V，建议最大持续恒流放电电流为 60000mA。

Type 型号	C40	Spec. NO 规格书编号	RD-C40-S01-LF	Edition 版本	A
------------	-----	-------------------	---------------	---------------	---

- * For maximum performance, discharge the cell in an ambient temperature range of -20 °C to 60 °C.
为了达到较好的性能，电芯的放电环境温度范围为-20 °C~60 °C。

5.2. 安全守则 (Precautions and Safety Instructions)

Lithium-ion rechargeable batteries subject to abusive conditions can cause damage to the cell and/or personal injury. Please read and observe the standard cell precautions below before using utilization.

滥用锂离子充电电芯可能会造成电芯的损害或人身的伤害。在使用锂离子充电电芯以前，请仔细阅读以下的安全守则：

Note 1. The customer is required to contact EVE in advance, if and when the customer needs other applications or operating conditions than those described in this document.

注释 1. 如果客户需要将电芯在该文件之外的条件下操作或应用，请先咨询亿纬公司相关事宜。

Note 2. EVE will take no responsibility for any accident when the cell is used under other conditions than those described in this document.

注释 2. 在该文件说明的条件之外使用该电芯而产生的事故，亿纬公司不承担任何责任。

5.2.1. 电芯防范措施 (Standard Cell Precaution)

- * Do not expose the cell to extreme heat or flame.
不要将电芯暴露在极热或有火星的环境中。
- * Do not short circuit, over-charge or over-discharge the cell.
不要将电芯短路，过充或过放。
- * Do not subject the cell to strong mechanical shocks.
不要使电芯承受过重的机械冲击。
- * Do not immerse the cell in water or sea water, or get it wet.
不要将电芯浸入海水或水中，或者使其吸湿。
- * Do not reverse the polarity of the cell for any reason.
不要颠倒电芯的正负极。
- * Do not disassemble or modify the cell.
不要拆卸或修整电芯。
- * Do not handle or store with metallic like necklaces, coins or hairpins, etc.
不要和项链、硬币或发夹等金属物品放置在一起。
- * Do not use the cell with conspicuous damage or deformation.
不要使电芯受到明显的损害或变形。
- * Do not connect cell to the plug socket or car-cigarette-plug.
不要将电芯与插座连接。
- * Do not make the direct soldering onto a cell.
不要直接焊接电芯。
- * Do not touch a leaked cell directly.
不要直接接触泄漏的电芯。

Type 型号	C40	Spec. NO 规格书编号	RD-C40-S01-LF	Edition 版本	A
------------	-----	-------------------	---------------	---------------	---

- * Do not use for other equipment.
不要将电芯用于其它设备。
- * Do not use Lithium-ion cell in mixture.
不要将锂离子电芯混合使用。
- * Do not use or leave the cell under the blazing sun (or in heated car by sunshine).
不要将电芯放置在太阳光直射的地方。
- * Keep cell away from children.
将电芯放置在远离儿童的地方。
- * Do not drive a nail into the cell, strike it by hammer or tread it.
不要针刺、锤打或践踏电芯。
- * Do not give cell impact or fling it.
不要撞击或投掷电芯。

5.3. 储存建议 (Storage Recommendations)

5.3.1. 短期存放 (Short Period Storage)

- * Storage the cell at temperature of -20 ℃ ~ 45 ℃ (less than 3 months) , low humidity and no corrosive gas atmosphere.
电芯短期存放（不超过 3 个月）应储存在-20 ℃~45 ℃ 温度范围，低湿度和不含腐蚀性气体的环境中。
- * No press on the cell
不要让电芯承受任何压力。

5.3.2. 长期存放 (Long Period Storage)

- * In case of long period storage (more than 3 months), storage the cell at temperature range of 0 ℃ ~ 25 ℃, low humidity, no corrosive gas atmosphere.
电芯长期存放（超过 3 个月）应存储在 0 ℃~25 ℃ 温度范围，低湿度和不含腐蚀性气体的环境中。
- * No press on the cell
不要让电芯承受任何压力。

5.4. 运输 (Shipment)

The capacity of delivery cell is approximately at 30% of charging. It is not specified more than 30% capacity remain at customer, because of self-discharge. During transportation, keep the cell from acutely vibration, impacting, solarization, drenching.

出货电芯处于 30% 充电状态，由于电芯存在自耗，运送到客户端的电芯无法完全保证 30% 荷电量。运输过程应防止剧烈振动、冲击、日晒雨淋。

5.5. 其他 (Others)

For the sake of safety assurance, if there are equipment design, lithium ion cell system protection circuit, fast

Type 型号	C40	Spec. NO 规格书编号	RD-C40-S01-LF	Edition 版本	A
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charging and other special application, please consult EVE first.

为了安全起见，如有设备设计，锂离子电池系统保护电路或高电流，快速充电和其它方面的特殊应用，请先咨询亿纬公司相关事宜。

6. 质量保证 (Warranty)

The warranty period of cell is made according to business contract. However, even though the problem occurs within this period, EVE won't replace a new cell for free as long as the problem is not due to the failure of EVE manufacturing process or is due to customer's abuse or misuse.

自出货之日起，电芯的保质期限依合同而定。但是，在此期限内，如果非亿纬公司的制程原因而是客户的误用造成的电芯质量问题，亿纬公司不承诺免费更换。

> EVE will not be responsible for trouble occurred by handling outside of the precautions in instructions.

亿纬公司对违反安全守则操作所产生的问题不承担任何责任。

> EVE will not be responsible for trouble occurred by matching electric circuit, cell pack and charger.

亿纬公司对与电路、电芯组、充电器搭配使用所产生的问题不承担任何责任。

> EVE will be exempt from warrantee any defect cells during assembling after acceptance.

出货后客户在电芯组装过程中产生的不良电芯不在亿纬公司质量保证的范围之列。

7. 技术咨询 (Consultation)

As to the obscurity, contact the following:

Address: EVE Industrial Park on No.38, Huifeng 7th Road, Zhongkai Hi-Tech Zone, Huizhou-Huizhou EVE Energy Co., Ltd

Tel No.: 86-755-3270571

Fax No.: 86-752-2606033

Website: <http://www.evebattery.com.cn>

如有疑问，请按以下方式咨询：

联系地址：惠州仲恺高新区惠风七路 38 号，惠州亿纬锂能股份有限公司

联系电话：86-0752-2630809

传真：86-752-2606033

网址：<http://www.evebattery.com.cn>

Type 型号	C40	Spec. NO 规格书编号	RD-C40-S01-LF	Edition 版本	A
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附录一：C40 图纸 (Appendix I: C40 drawing)

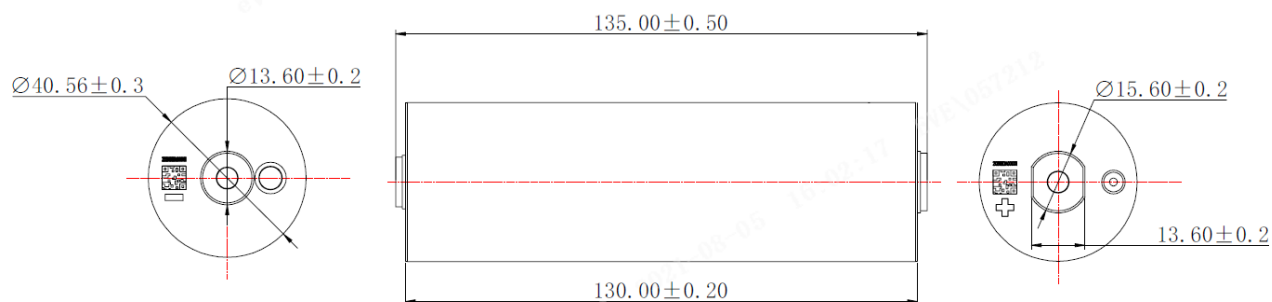


Figure A (图 A)

附录二：包装 (Appendix II :Packaging)

Each box contains 30PCS cell, divided into two layers, as shown in figure B.

每箱 30pcs 电芯，分两层，如图 B 所示。

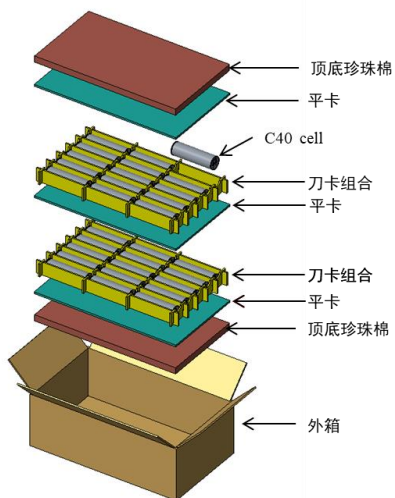


Figure B (图 B)

Each card board has 48 boxes, divided into 6 layers, as shown in figure C.

每卡板 48 个箱子，分六层，如图 C 所示。

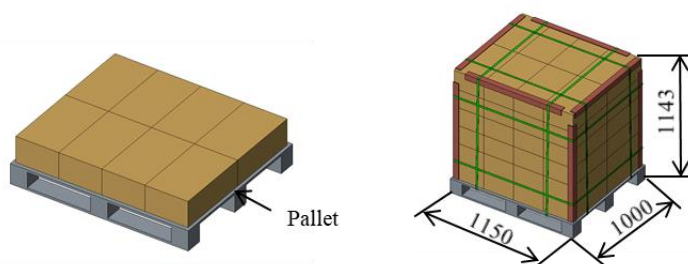


Figure C (图 C)