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ECN NO.:

Battery Specification Confirmation Sheet

of

Amperex Technology Limited
Ningde Amperex Technology Limited
Dongguan Amperex Technology Limited
(each and collectively, "ATL")

ATL 电池产品规格书

ATL Product Part Number/ATL产品代码: GB-S02-1496A1-010L Pack Configuration/电池结构: 1 Series 2 parallel (1S2P)

Prepared by TPM	Approved by TPM	Approved by CPD	Approved by QA
SK Hu	HP Li	HT Xia	XH Yin

Customer Confirmation	Authorized	Date	
	Signature	Print Name	
	Company Name Of Customer: ONY		
	Company Stamp Of Customer:		

Confidential: () Level 3 Private confidential () Level 2 High confidential (V) Level 1 Low confidential



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AMENDMENT RECORDS/变更记录

Revision/版本	Description/描述	Originator/制作者	Date/日期
A	New release新发行	SK Hu	2021/12/2
В	Update 9.2Battery packing method and Package Drawing /	SK Hu	2022/1/21
	更新9.2电池包装方式和9.3包装图纸		
C	Update 6.4 Battery Photos, 9.2Battery packing method and	SK Hu	01/25/2022
	9.3Package Drawing /更新6.4电池图片,9.2电池包装方式		
	和9.3包装图纸		
D	Update 6.2 Battery Barcode Drawing, 6.3 Disassembly	SK Hu	03/29/2022
	Drawing for Pack、7 Terminal Specification/引脚定义、8.1		
	Circuit diagram/电路图、8.2 PCB Layout/FPC布局/更新		
	6.2电池喷码图纸、6.3电池拆分图、7 引脚定义、8.1电		
	路图、8.2 FPC布局		



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1 Scope/适用范围:

The purpose of this document is to specify the specifications of the Lithium-ion Polymer ("LIP") rechargeable battery with ATL Part Number <u>GB-S02-1496A1-010L</u> ("Product" or "Pack") to be supplied by ATL to Customer under Customer's purchase order and ATL's confirmation relevant to the Product. For the avoidance of doubt, the specifications specified herein do not apply to any Host Device, apparatus, instrument, equipment or hardware device containing Product or Cell ("Host Device").

本产品规格书描述了 ATL 依据客户采购订单生产的可充电聚合物锂离子("LIP")电池的产品性能指标, ATL 产品代码号 <u>GB-S02-1496A1-010L</u> ("产品"或"电池")。为避免疑问,本产品规格书不适用于任何包含该产品或电芯的主机设备、仪器、仪表、器件、硬件设备等("主机")。

2 Model Name/型号:

ATL型号: 1496A1

电池型号: CSL1496A1WS

3 Standard Environmental Test Conditions/标准环境测试条件:

3.1 Unless otherwise specified, all tests stated in this Product Specification are conducted at below conditions:

除非特别指定,本产品规格书所有的测试遵循如下条件:

Temperature/温度: 25 ± 3°C ("Temperature Condition"/温度条件) Humidity/湿度: 65 ± 20% RH ("Humidity Condition"/湿度条件)

3.2 Throughout this Document, numeric criteria annotated by "*" means such criteria are only applicable to fresh unused Product within 30 days from manufacture by ATL. Products either have been used or stored for a period longer than 30 days by Customer and/or its customer may exhibit an inferior numeric parameter than such criteria. Customer agrees that such occurrence does not constitute nonconformance of specification.

本产品规格书中,所有标有"*"的项目是指仅适用于"未使用的且从ATL制造日起30天内的产品"。如果产品已被客户使用或存储时间超过30天,可能表现出低于标准规格,客户同意并接受产品不构成不符合规格。

4 Detailed Specifications/详细规格:

The specifications listed in this Section 4 shall be the detailed specifications for the Product ("**Detailed Specifications**"). 列在第 4 部分的规格作为产品的详细规格。

No.	Items/项目	Specifications/规格	Remark/备注
4.1	*Minimal Capacity (C _{min})/最小容量	3700 mAh	Standard capacity measure method: 0.2Cmin CC (constant current) charge to 4.45V,
4.2	*Minimal Energy (C _{min}) /最小能量	14.32Wh	then CV (constant voltage 4.45V) charge till charge current decline to 0.02Cmin, then with
4.3	Typical Capacity/ 典型容量	3730mAh	0.2 Cmin discharge to 3.0V cut-off 标准容量测试方法: 先用0.2Cmin 恒流充电至
4.4	Typical Energy/ 典型能量	14.43Wh	4.45V,再恒压充电直至充电电流≤ 0.02Cmin, 然后用0.2Cmin放电至3.0V
4.5	*Typical Voltage/ 典型电压	3.87V	
4.6	Charge Cutoff Voltage/ 充电截止电压	4.45V	



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			/
4.7	Voltage at end discharge/ 放电截止电压	3.0V	
	Charge/Discharge	Cell Surface Temperature	Charge Current and Voltage
	充电/放电	电芯表面温度	充电电流和电压
		0°C ~15°C	0.2Cmin Max to 4.45V, then CV to 0.02Cmin/ 0.2Cmin Max充电到4.45V, 然后CV到 0.02Cmin
4.8	Charge/充电	15°C ~45°C	1.0Cmin Max to 4.45V, then CV to 0.02 Cmin/ 1.0Cmin Max 充电到 4.45V, 然后 CV 到 0.02Cmin
		45°C ~55°C	1.0Cmin Max to 4.2V, then CV to 0.02Cmin/ 1.0Cmin Max充电到4.2V, 然后CV到0.02Cmin
	D. 1 / }	-20°C ~0°C	0.3C Max to 3.0 V 0.3C Max 放电到 3.0V
	Discharge/放电	0°C ~60°C	1.0C Max to 3.0 V 1.0C Max 放电到 3.0V
4.9	Storage Condition/ 存贮条件	Temperature/温度: within 3 months/3个月内 -20°C ~+ 45°C; over three months/超过3个月 25±3°C; Humidity/湿度: ≤75%RH	The battery voltage should be kept in the range of 3.6V to 3.95V by charging batteries if batteries are stored more than 3 months/电池存储超过3个月长期存储电压维持在3.6V to 3.95V
4.10	*Initial resistance 初始内阻	≤220mΩ	Internal resistance measured at AC 1KHz after 50% charge to shipment voltage 充电到出货电压后,测量其 AC 1KHz下的交流阻抗
	*Pack Voltage(as of	3.80~4.0V	Non air transport
4.11	shipment) 电池电压(出货状态)	/	Air transport (IATA require shipping voltage <=30% SOC)
4.12	*RT Cycle life/常温循环寿命(25°C±3°C)	Charge Cell with 0.5Cmin to 4.45V, CV到0.02Cmin ,and discharge cell with 0.5Cmin discharging current until battery voltage reaches 3.0V. repeat to 400 cycles, record the remained capacity cycles, record remained capacity. 接充电0.5Cmin 到 4.45V, CV 到 0.02Cmin, 然后 0.5Cmin 放电到 3.0V, 重复 400 次,记录剩余容量。	≥80% of Cmin Thickness≤8% of initial thickness 剩余容量≥80% of Cmin 厚度≤8%初始厚度



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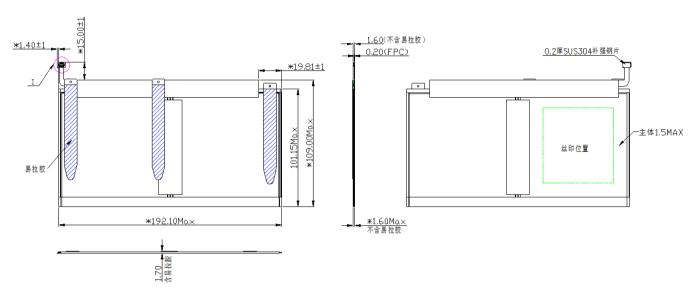
4.13 Pack Weight/电池重量	79g	For reference only
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5 Warranty period/保质期:

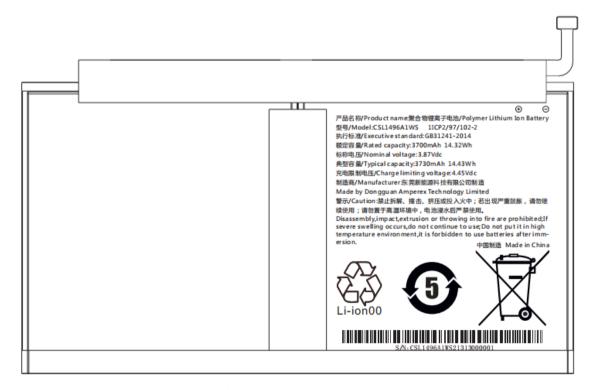
The warranty period of Battery is 12Months after the manufacture date. 电池保质期为从生产日期算起12个月。

6 Assembly Drawing (all unit is mm, not in scale)/电池图纸 (单位: mm)

6.1 Battery Drawing/电池图纸



6.2 Battery Barcode Drawing/电池喷码图纸



丝印颜色(colour): 黑色 (PANTONE 426C)



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Bar Code Rules/条码规则:

1、S/N码格式: Code128,600dpi条形码。

2、S/N码定义: CSL1496A1WS21313000001(共22位),详细如下:

CSL1496A1WS21313000001

十进制流水码(同一周生产产品,流水码按000001递增;下一周生产产品,流水码重新从000001递增)

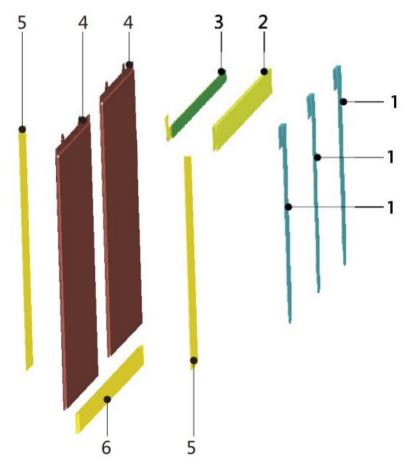
-生产星期(星期一用1表示 ,星期二用2表示......星期天用7表示)

生产周数 , 采用公历计算

生产年份: 20表示2020年, 21表示2021年...... 以此类推

—产品型号

6.3 Disassembly Drawing for Pack/电池拆分图



Item/项目	Specification/规格	Qty/数量	Remark/备注
1	Pulling/拉手	3pcs	
2	Mylar/胶纸	1pcs	
3	PCM/电路板	1pcs	
4	Mylar/胶纸	2pcs	
5	Cell/电芯	2pcs	
6	Mylar/胶纸	2pcs	
7	Mylar/胶纸	lpcs	



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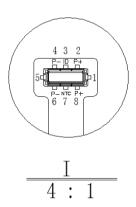
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6.4 Battery Photos/电池图片



7 Terminal Specification/引脚定义



Name/ 名称	Pin No./ 引脚编号	Function/功能	Remark/ 备注
NC	1	/	/
P+	2	Pack positive for charge and discharge	I/O
ID	3	68K 1%	О
P-	4	Pack negative for charge and discharge	I/O
NC	5	/	/
P-	6	Pack negative for charge and discharge	I/O
NTC	7	10KΩ NTC 1% B=3380K	О
P+	8	Pack positive for charge and discharge	I/O



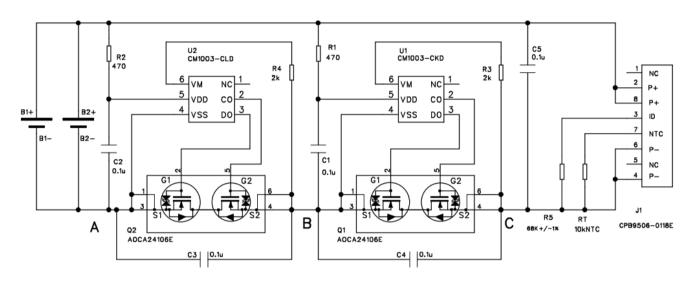
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8 PCM Specifications/保护板规格

8.1 Circuit diagram/电路图



8.2 PCB Layout/FPC布局

Top layer



Top Paste & Top Overlay & ViaHole



Bottom layer





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8.3 PCM Part list/保护板清单

Item/项目	Specification/规格	Qty/数量	Remark/
			备注
1stProtection IC	创芯微 CM1003-CKD	美之美 or	U1
(一级保护 IC)	切心像 CW1003-CKD	equivalent	U1
2stProtection IC	NHT ALL CM 1002 CT D	美之美 or	110
(二级保护 IC)	创芯微 CM1003-CLD	equivalent	U2
MOSFET	A OCA 2410/E	AOS or	01.02
(MOS 管)	AOCA 24106E	equivalent	Q1,Q2
RES_5% (电阻_5%)	$0402,470\Omega\pm5\%$, Carbon resistor	2	R1,R3
RES_5% (电阻_5%)	0402,2.0KΩ±5%,Carbon resistor	2	R2,R4
NTC	0402 10K 1% NTC 0402/ B=3380	1	RT
ID	0402 68K 1%	1	ID
Connector	SMK CPB9506-0118E	1	
CAP_Multilayer ceramic (电容_ 积层)	0402, 0.1uF±10%, 16V, X5R	3	C1,C4,C5
CAP_Multilayer ceramic (电容_ 积层)	0201, 0.1uF±10%, 16V, X5R	2	C2、C3
Nickel plate_L	Ni,L Shape,L=3.8mm	4	B+,B-
PCB	FR4, 2layer,T 0.8mm	1	

8.4 PCM Parameter/保护板参数(Ta=25°C)

PCM Parameter /保护板参数		Design 设计			Remark/ 备注
Item/項目	Unit/单位	Min./最小值	Typ./典型值	Max/最大值	
1 st Over-charge Threshold Woltage 一级充电过压阈值	V	4.475	4.495	4.515	
2 st Over-charge Threshold Woltage 二级充电过压阈值	V	4.530	4.550	4.570	
1 st Output Delay of Over-charge 一级过压延时	S	0.7	1.0	1.3	
2 st Output Delay of Over-charge 二级过压延时	S	0.7	1.0	1.3	
1 st Release voltage for over-charge 一级过压解除	V	4.245	4.295	4.345	
2 st Release voltage for over-charge 二级过压解除	V	4.200	4.250	4.300	
1 st Over-discharge Threshold 一级放电欠压阈值	V	2.470	2.520	2.570	
2 st Over-discharge Threshold 二级放电欠压阈值	V	2.280	2.330	2.380	



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1stOutput Delay of Over-discharge 一级欠压延时	mS	22.4	32.0	41.6	
2 st Output Delay of Over-discharge 二级欠压延时	mS	44.8	64.0	83.2	
1 ^{s t} Release voltage for over-discharge 一级欠压解除	V	2.600	2.700	2.800	
2 st Release voltage for over-discharge 二级欠压解除	V	2.400	2.500	2.600	
1 st Over discharge-current threshold 放电过流阈值	A	6.0	-	20	
2 st Over discharge-current threshold 放电过流阈值	A	6.0	-	15	
1 st Output delay of over discharge-current 一级放电过流延时	mS	11.2	16.0	20.8	
2 st Output delay of over discharge-current 二级放电过流延时	mS	22.4	16.0	41.6	
1 st Over charge-current threshold 一级充电过流阈值	A	6.5	-	20	
2 st Over charge-current threshold 二级充电过流阈值	A	6.5	-	20	
1 st Output delay of over charge-current 一级充电过流延时	mS	11.2	16.0	20.8	
2 st Output delay of over charge-current 二级充电过流延时	mS	22.4	16.0	41.6	
1st Delay Time for Short Circuit Protection 一级短路保护延时	uS	100	280	420	
2 st Delay Time for Short Circuit Protection 二级短路保护延时	uS	265	530	795	
1 st Short-current threshold 一级短路电流阈值	A	13	-	40	
2 st Short-current thres hold 二级短路电流阈值	A	30	-	60	
1 st Current consumption(sleep Mode) 自耗电(休眠模式)1	uA	0.9	1.5	3.0	
2 st Current consumption(sleep Mode) 自耗电(休眠模式)2	uA	0.9	1.5	3.0	
Minimum operating voltage for 0V forbid 0V禁止充电电压	/	0.9	1.2	2.0	
E.S.D. Susceptibility Test equipment 静电防护等级	KV	Contact	2kV		
	KV	Air	4kV		



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9 Battery Packing requirement/电池包装要求:

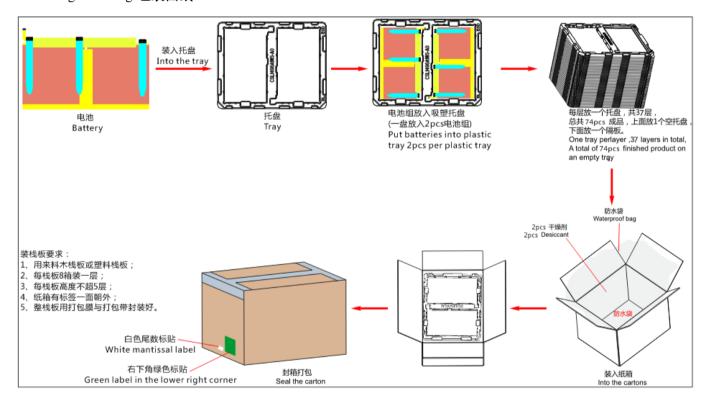
9.1 Cell packing method/电芯包装方式

The Cells are delivered in trays with 4 pcs in a tray, 232 pcs Cells are packed in a bulk package then put into the carton box. Tray dimensions are 310mm(L)*260mm(W), Carton box dimensions are 324mm(L)*274mm(W)*240mm(T)./每盘吸塑盒可装 4 pcs 电芯,每箱装 232 pcs 电芯,吸塑盒尺寸为 310mm(L)*260mm(W), 外箱尺寸为 324mm(L)*274mm(W)*240mm(T),一体化打包。

9.2 Battery packing method/电池包装方式

The battery are delivered in trays with 2pcs, 74pcs pack are packed in a bulk package then put into the carton box. The tray dimension is 283mm(L)*225mm(W), the carton box dimension is 294mm(L)*243mm(W)*240mm(T)/每盘吸塑盒可装 2 pcs 电池,每箱装 74pcs 电池,吸塑盒尺寸为 283mm(L)*225mm(W),纸箱尺寸294mm(L)*243mm(W)*240mm(T),一体化打包。

9.3 Package Drawing/包装图纸



10 Appendix Handling Precautions and Guidelines for LIP Rechargeable Batteries: 附录 聚合物锂离子充电电池操作指示及注意事项

Foreword/前言

These Handling Precautions and Guidelines for LIP Rechargeable Batteries shall apply to the Product. 本文件《聚合物锂离子充电电池操作指示及注意事项》仅适用于新能源科技有限公司生产的电池。

Statement (1):

Customer is requested to contact ATL in advance, if and when the customer needs other applications or operating conditions than those described in this document. Additional experimentation may be required to verify performance and safety under such conditions.

声明(1):客户若需要将电池用于超出文件规定以外的设备,或在文件规定以外的使用条件下使用电池应事先联系ATL,因为需要进行特定的实验测试以核实电芯在该使用条件下的性能及安全性。

Statement (2):

ATL will take no responsibility for any accident when the Product is used under other conditions than those



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described in this Document.

声明(2): 对于在超出文件规定以外的条件下使用电池而造成的任何意外事故,ATL概不负责。

- Use specified charge/discharge conditions/使用指定的充放电条件。
- Specified product use only/仅用于指定产品。
- Do not immerse in water pour/禁止投入水中。
- Do not heat or throw in fire/禁止加热或投入火中。
- Do not attempt to crush or drop/禁止尝试挤压或跌落。
- Do not attempt to modify/禁止任何修改。
- Leave in cool places/存放在阴凉处。
- Do not put it in microwave oven, oven or pressure container/禁止放在微波炉,炉子或压力容器里。
- Do not use battery if not recover during conditions above/假如在上述条件下电池不能恢复请不要继续使用。
- During assembly, charging, normal use and storage of battery pack, such as change of color, mechanical are detected do not use/在组装, 充电,正常使用和存储中,如有变色或机械损伤,请不要继续使用。
- In case of leakage or smells remove from thermal conditions, Also wash off with clean water/万一有漏液或气味, 要从热源移除,并且用清水清洗干净。
- Do not place or leave the battery and equipment in the reach of infants so that they are not able to swallow or mistreat the battery by mistake. In case of ingestion, consult with a doctor immediately/请将电池放在幼儿不宜触碰的地方,以免吞食和误处理。万一发生请立即就医。
- Do not let leaked electrolyte come into contact with eyes or skin. In such a case, immediately wash the area of contact with clean water and seek help from a doctor. If not treated soon, prolonged contact may cause serious injury/漏出的电解液远离眼睛和皮肤,万一发生立即清洗干净或就医,假如不能立即处理,可能引起严重伤害。
- Do not put the battery into a fire. Do not use it or leave it in a place near fire, heaters, or high temperature sources. In such a case, the insulator in the battery may be melted, the safety vent and structure may be damaged, or the electrolyte may catch fire, all of which may cause heat generation, explosion, or fire/不要将电池丢入火中。不要在 离火源,热源或高温源近的地方使用或放置。在这种情况下,电池中的绝缘保护可能融化,安全阀等结构可能会被毁坏,这样可能会过热,爆炸或起火。
- Do not submerge the battery in water, or wet the battery. If the protecting device assembled in the battery is damaged, the battery may be charged with an abnormal current and voltage and may cause a chemical reaction within the battery, which may result in the cause of heat generation, explosion, or fire of the battery/禁止浸泡或弄湿电池,如果电池保护装置被损坏,电池可能会被异常电流和电压充电从而引起电池内化学变化,导致过热,爆炸或起火。
- Do not use any battery charger not specified. Incorrect charging method and charging equipment, the battery will be damaged, which may cause firing, or other problems/禁止使用非指定充电器,错误的充电方法和充电设备,可能损坏电池,导致起火或其它安全问题.
- Do not use, charge, or leave the battery near fire or in a car under the blazing sun. Such a high temperature may cause damage of the protecting device in the battery, which may result in an abnormal reaction, and then heat generation, explosion, or fire/禁止离火源很近的位置或烈日下的车中放置,使用或给电池充电,这种高温环境下可能毁坏电池中的保护机构,从而引起异常反应,发热,爆炸和起火。
- Do not connect the battery reversed in positive (+) and negative (-) terminals in the charger or equipment. In the case the battery is connected in reverse, it is charged reversibly and may cause heat generation, explosion, or fire due to an abnormal chemical reaction/禁止反接电池正负极,在这种情况下,电池被异常充电可能会导致过热,爆炸或起火。
- Do not short terminals. Do not let the battery terminals (+ and -) contact a wire or any metal (like a metal necklace or a hairpin) with which it carried or stored together. In such a case, the battery is shorted and causes an excessive current, which may result in heat generation, explosion, or fire/禁止短接,禁止直接用导线或任何金属(比如金



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属项链或发卡)连接电池正负极。这种情况下,电池外短路引起过电流,有可能导致过热,爆炸或起火。

• Do not connect the battery directly to an electric outlet or cigarette heater socket in car. With a high voltage applied, the battery may overheat, explode, or cause fire/车上禁止直接连接到电源插座和点烟器上,因为高压下,电池可能会过热,爆炸,或起火.

- Do not throw or drop the battery. Strong impact may damage the protecting device, which may cause an abnormal chemical reaction during its charge and result in heat generation, explosion, or fire of the battery/禁止抛扔或跌落电池,强的重力冲击可能破坏保护机构,可能引起异常化学反应导致发热,爆炸或起火.
- Do not drive a nail in, hit with a hammer, or stamp on the battery. In such a case, the battery may be deformed and shorted, which may cause heat generation, explosion, or fire of the battery/禁止针刺,砸锤或邮戳电池,这种情况下,电池可能变形和短路,从而导致过热,爆炸,起火.
- Do not solder the battery directly. Heat applied during soldering may damage the insulator of the safety vent and mechanism, which may result in heat generation, explosion, or fire of the battery/禁止锡焊电池,可能破坏安全阀,以及机构的绝缘保护措施,导致过热,爆炸,起火。
- Do not disassemble or alter the battery. The battery employs a safety mechanism and a protecting device in order to avoid any danger. If these are damaged, heat, explosion or fire may be caused/禁止拆解或更换电池,电池安置了安全机构和保护机构避免安全隐患,假如损坏,可能导致过热,爆炸或起火。
- Do not put the battery in a microwave oven or a pressure cooker. Sudden heat may damage the seal of the battery and may cause heat generation, explosion, or fire of the battery/禁止将电池放在微波炉或压力锅内,极速的热可能导致过热,爆炸或起火。
- Do not leave the battery in a charger or equipment if it generates an odor and/or heat, changes color and / or shape, leaks electrolyte, or causes any other abnormality. In such a case, immediately take the battery out of the charge or equipment and keep it away from fire, otherwise, the battery might overheat, explode, or cause fire/如果电池已经发出气味或发热,颜色和/或外形有变化,电解液露出或任何不正常的现象,请不要再将电池放到充电器或设备里。这种情况下,应立刻将电池从充电器或设备中取出并远离火源,否则电池可能过热,爆炸或起火。
- Discontinue charging after specified charging time even if the charge is not complete, otherwise, the battery might cause heat generation, explosion, or fire/规定时间内不能完成充电不要继续充电,否则可能导致过热,爆炸或起火。
- Do not use the battery in the place where the static electricity (more than the limit of the manufacturer's guarantee) occurs. Otherwise, the protecting device in the battery might be damaged and cause heat generation, explosion, or fire/禁止将电池搁置在超出制造商定义的静电区,否则保护机构可能损坏导致过热,爆炸或起火。
- Do not use the battery in other than the conditions specified; otherwise, the battery might cause heat generation, damage, or deterioration of its performance/禁止在超出规定条件下使用电池,否则可能导致过热,损坏,恶化电池电性能。
- Read the instructions of your equipment regarding the battery installation and removal from the equipment so as not to mishandle and waste the battery/阅读设备和电池关于安装和拆卸指导书,避免误操作导致浪费。
- In case young children use the battery, instruct them on the contents of the instructions and ensure the battery is correctly used by them at all times/如果小孩使用电池,务必指导他们正确操作,确保电池正确使用。
- The battery was manufactured and inspected carefully before shipment to conform with the specification. However, in the case any abnormality of bad smell or heat, etc. arises after purchase, bring the battery back to the retail shop where you bought it/电池制造和出厂前检查是满足本规格的,万一购买后发现像气味,热等任何异常,去购买处退回处理。
- The battery was charged a little before shipment for temporary use by an end user. In case your equipment does not operate with the battery or in the case of a long use, charge the battery with a specified charger once/出厂前电池充了一点电,购买后使用不能工作或使用一段时间后,需要规定的充电器充电。
- Do not charge the battery over the specified time described in the instructions, otherwise, the battery performance might deteriorate/禁止用超出规格书规定的充电时间,否则可能恶化电池电性能。



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• Turn off your equipment power switch after use, otherwise, the performance of the battery might deteriorate/设备使用后请关掉电源,否则可能恶化电池电性能。

- The battery after long storage might not be sufficiently charged for use/电池长期存储不用可能导致电量不足。
- Prolonged standing or storage, PACK must be stored after removal from the host (disconnect the electrical properties of contacts); PACK need to conduct a test at least once in half of year. If necessary, the PACK needs to supplement electricity. PACK shall be kept for at least 40% capacity after a path to storage.
- 长时间搁置或储存,电池必须从主机上拆卸下储存(断开电子器件的接触);电池至少在半年需要进行测试一次,如有必要,电池需要补充电力,保持至少40%的容量。
- If the PACK cannot removed from the host, the PACK need to be set to the lowest power consumption mode before the storage, and arrangements the PACK supplementary charge regularly and performance testing according the Consumption rate (recommendation: supplementary charge to 60 70% every two months), adjustment depending on the system actual storage conditions and power consumption. With Smart-Gauge products, it is strongly recommended to set Shipping Mode of the PACK after storage.
- 如果电池无法从主机上拆卸,电池需要被设置为最低功耗模式存储,并安排定期补充电和性能测试,根据自 耗电率(建议:每2个月补充电至60-70%),根据系统的实际存储条件和耗电调整。带有智能电量计的产品,强烈建议储存设置为电池出货模式。
- In the case the battery terminals are dirty, clean the terminals with a dry cloth before use, otherwise, the contact with equipment might cause insufficiency, and power failure or charge failure/万一电池金手指脏污,请清洁干净后使用,否则连接设备后可能引起一些异常,甚至可能导致电源或充电失效。
- Despite being rechargeable, the battery has a limited life span, Replace when usage time between charges becomes short/尽管可充电,电池有极限使用寿命,当满充后使用时间明显变短需要更换电池.
- Keep the handling instructions and your equipment instructions in a suitable place for future reference/确保操作指导书和设备指导书在合适的位置为进一步参考。

11 Disclaimer/免责声明

11.1 The Customer hereby agrees that it has carefully read and understand any and all terms and conditions, safety precautions and measures set forth in this Document, furthermore, the Customer agrees to bear full responsibilities of these risks and responsible for any accidents, injury to persons, or property damage that may occur, Customer further agrees to waive claiming any liability against ATL.

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11.3.1 ATL's incorporation or use of materials, designs, technology or intellectual property designed, designated or instructed by Customer, its affiliates, contract manufacturers, customer, or end user into the products;

ATL在其产品上结合或使用客户、客户之关联方、分包方、客户或终端用户的设计、指定或指示的材料、设计、技术或知识产权;

11.3.2 the combination, assembly, operation, or use of the products with materials, devices, parts, or software not supplied by ATL;

客户将 ATL 的产品与非 ATL 提供的材料、设备、组件或软件进行结合、组装使用/运行;

11.3.3 modifications, disassembly, repair, and rework to the products made by Customer or any third party without the prior written consent of ATL;

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ATL 依照客户的设计、规格、要求或指示而对其产品进行的修改;

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客户或任何第三方未依据 ATL 指定的产品使用方式对 ATL 的产品进行使用或未按照 ATL 指定的标准对产品进行 安置、贮存、运输、组装或处理而导致的任何侵权或索赔事项;

11.3.6 use of the products outside the scope of intended use under this Document; or

客户或任何第三方未依据本产品规格书中约定的使用范围对 ATL 的产品进行使用;或

11.3.7 any defect that may exist before ATL's product enters the market or any defect that is unable to be detected by the existing technology at the time ATL's product enters market.

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12 Mis cellaneous/其他

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