中国认可
检验
INSPECTION
CNAS IB0396

运输危险性鉴定报告

Hazard Classification and Identification Report for Transport

(空运/by Air)

锂电池-符合包装说明 967 第II部分

物品名称:	reTerminal E1002 电子墨水屏 E1002 内置 锂离子聚合物电池 HSZ 654060 3.7V 2000mAh 7.4Wh
Goods Name	reTerminal E1002 ePaper Display E1002 Containing Lithium-ion Polymer Battery HSZ 654060 3.7V 2000mAh 7.4Wh
委托单位:	深圳矽递科技股份有限公司
Client	Seeed Technology Co., Ltd.
报告编号:	DGT2375DL3045262J
Report No.	
生效日期:	2025-09-05
Effective Date	

中国民用航空总局第二研究所

The Second Research Institute of CAAC

2025-09-05 第 1 次打印

声 明
STATEMENT

1.本《鉴定报告》依据本年度国际航协《危险品规则》、委托人（托运人或代理人）提供的物品及其运输信息出具。

The certificate is issued by The Second Research Institute of CAAC according to IATA DGR published in the current year and the information of the goods and its shipment provided by the client (shipper or its agent).

2.本《鉴定报告》的鉴定结论仅对样品负责。

The certificate is only responsible for the sample provided by the client.

3.客户必须如实提供样品及资料，并保证申报品名和样品与运输货物相同。

The client shall provide samples and relevant data, at the same time, and they shall guarantee that the name they declared is the same as the samples they provided and the goods to be transported.

4.本《鉴定报告》经检验人、审核人、批准人签字并加盖检验印章后生效。

The certificate will be effective only after it is signed by the inspector, checker, and approver, and stamped.

5.本《鉴定报告》不得全部或部分复制，复制无效。本鉴定报告私自转让、复制、盗用、冒用、涂改或以任何媒体形式篡改的均属无效。

The certificate must not be copied wholly or partly. The certificate is invalid if anything of the following happens, such as illegal transfer, reproduction, embezzlement, imposture, modification or tampering in any media form.

6.本《鉴定报告》不考虑国家及经营人差异。

The certificate takes no account of the State and Operator Variations.

7.为适应国际航协《危险品规则》的年度变化，本《鉴定报告》仅在本年度内有效。

This certificate is only valid within the year in which the IATA Dangerous Goods Regulations is effective.

8.对《鉴定报告》若有异议，应于收到报告之日起十五日内向本机构提出。

Objections to the certificate must be submitted to The Second Research Institute of CAAC within 15 days.

9.本报告所附图片（若有）颜色与实物颜色可能会存在色差。若有疑问请联系本机构。

The color of the pictures (if any) attached to this report may have color difference from the actual color. Please contact The Second Research Institute of CAAC if you have any questions.

10.本《鉴定报告》运输信息栏的托运人或托运人代理人声明由托运人或托运人代理人在使用本鉴定报告时填写，不属于鉴定内容。

The shipper's or shipper's agent's declaration in the transportation information column of this report is filled in by the shipper or shipper's agent when using this report and does not belong to the appraisal content.

地址：成都双流西航港经济开发区腾飞路 765 号

Address: No.765, Tengfei Road,Xihanggang Economic Development Zone, Shuangliu,Chengdu, Sichuan

电话(Tel)：028-64458155 028-64458156

传真(Fax)：028-64458195

邮编(Post Code)：610200

报告查询网址：http://service.caacdgt.com

运输危险性鉴定报告

Hazard Classification and Identification Report for Transport

鉴定目的 **Inspection Purpose**	是否属于航空运输危险品 Dangerous Goods or not restricted		
样品编号 **Sample No.**	DGT2375DL3045262	接样日期 **Receiving Date**	2025-09-04
鉴定依据 **Criteria**	国际航空运输协会《危险品规则》66 版 IATA Dangerous Goods Regulations (DGR) 66th Edition		
样品名称 **Sample Name**	reTerminal E1002 电子墨水屏 E1002 内置 锂离子聚合物电池 HSZ 654060 3.7V 2000mAh 7.4Wh reTerminal E1002 ePaper Display E1002 Containing Lithium-ion Polymer Battery HSZ 654060 3.7V 2000mAh 7.4Wh		
委托单位 **Client**	深圳矽递科技股份有限公司 Seeed Technology Co., Ltd.		
电池生产单位 **Manufacturer**	东莞市宏盛泽能源科技有限公司 Dongguan Hongshengze Energy Technology Co., Ltd.		
物品信息 **Sample Information**	**-电池信息/Battery information：** 型号/ Model: HSZ 654060 3.7V 2000mAh 7.4Wh 类型/Type:锂离子单电芯电池/Lithium ion single cell battery 商标/Brand Mark: / **-包装信息/Package information：** 每个包装件中锂电池净重不超过 5.0kg。 Net quantity of Lithium battery per package is no more than 5.0kg. 包装件内含 30 个设备及 30 个锂电池。 The package contains 30 equipment and 30 Lithium batteries. 设备型号/ Equipment Model: E1002		
鉴定结论 **Conclusion**	1.危险性识别（Hazards Identification） 锂离子电池 Lithium Ion Batteries 2.按照 IATA DGR 办理的类型（Suggestion according to IATA DGR） 该样品满足包装说明 967 一般要求和第II部分的规定。 The sample meets the requirements in General Requirements and section II of Packing Instruction 967. 3.包装要求(Packing requirements) 按包装说明 967 第II部分要求办理。 The sample is packaged according to the Packing Instruction 967 section II. 鉴定单位盖章(Stamp) 签发日期(Issued Date):2025-09-05		
备注（Comment）	每个设备内含 1 个锂电池。		

检验: 罗成 (Inspected by)　　审核: (Checked by)　　批准: (Approved by)

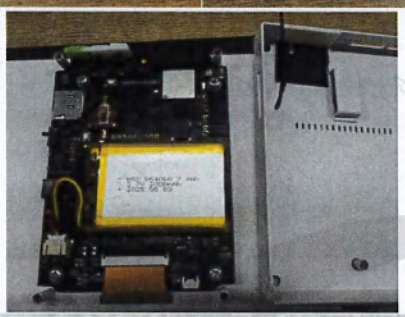
运输危险性鉴定报告
Hazard Classification and Identification Report for Transport

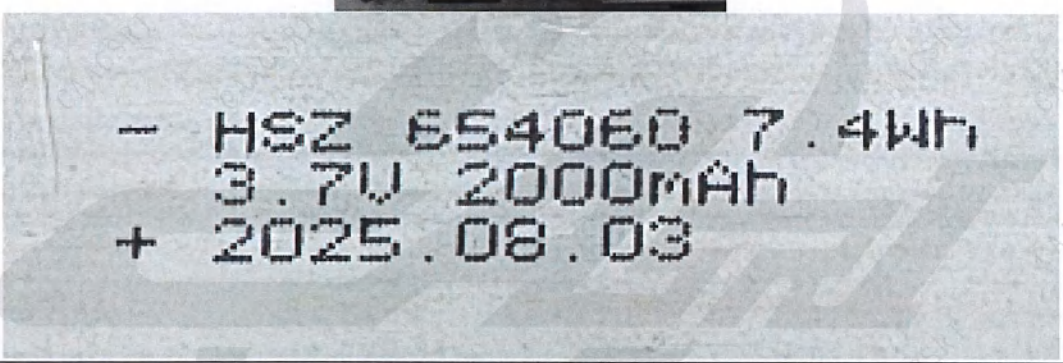
	检验结果及其他事项 Inspection results and other information
1	本报告所述锂电池按照《危险品规则》（66 版）3.9.2.6.1 (e)规定的质量管理体系进行制造。 Lithium batteries listed in this report are manufactured under the quality management program as described in IATA DGR 66th Edition 3.9.2.6.1 (e). 本报告所述锂电池不属于有安全缺陷或已损坏的锂电池。 Lithium batteries listed in this report are not damaged or defective lithium batteries.
2	本报告所述锂电池已经通过联合国《试验与标准手册》第III部分第 38.3 节的测试。测试摘要详见附件。 Lithium batteries listed in the report are of type proved to meet the requirements of each test of the UN *Manual of Tests and Criteria,* Part III, subsection 38.3.The test summary is detailed in the attachment. 本报告所述锂电池包装件能够承受 24 小时 3m 堆码试验。 The package is capable of withstanding the 3 m stacking test for a duration of 24 hours .
3	本报告所述锂电池具有适当的防外部短路措施。 Lithium batteries are equipped with an effective means of preventing external short circuits. 设备已固定在外包装中不能移位并配置了防止发生意外启动的有效手段。 The equipment containing the cells or batteries must be secured against movement within the outer packaging and must be equipped with an effective means of preventing accidental activation.
4	设备装入由适当材料构造的坚固外包装件内。 The equipment is packed in strong rigid outer packaging constructed of suitable materials. 一个外包装中有多个设备时，每个设备都须包装好，从而避免与其他设备接触造成损坏。 where multiple pieces of equipment are packed in the same outer packaging, each piece of the equipment must be packed and protected against contact with other equipment so as to prevent damage.
5	每个包装件必须耐久清晰的标识电池标记。包装件必须具有足够的尺寸在其一个面上粘贴未被折叠的标记。 Each package must be durably and legibly marked with the battery mark. The package must be of such size that there is adequate space to affix the mark on one side of the package without the mark being folded. 本要求不适用于： –包装件仅含有安装在设备（包括线路板）内的钮扣电池；或 –单个包装件不超过四个电芯或两个电池安装在设备中，且每票货物包含两个或以下此类包装件。 This requirement does not apply to: –packages containing only button cell batteries installed in equipment(including circuit boards); or –consignments of two packages or less where each package contains no more than four cells or two batteries installed in equipment.
6	当使用航空货运单时，必须在“货物名称和数量”栏注明“锂离子电池符合包装说明 967 第 II 部分”。 Where a consignment includes packages bearing the lithium battery mark, the words “Lithium ion batteries in compliance with Section II of PI 967” must be included on the air waybill, when an air waybill is used.
7	使用合成包装时，除非合成包装中各个包装件的标签均可见，合成包装必须贴有“Overpack”的字样及耐久清晰的标识电池标记。 When the overpack is used, the overpack must be marked with the word “Overpack” and durably and legibly marked with the battery mark, unless the marks representative of those on the packages inside the overpack are visible.
8	附图/pictures

锂电池及设备/Lithium Battery & Equipment:









包装件/Package:











——以下无正文内容——

民用航空总局第二研究所 检验专用章

附件：

测试摘要
TEST SUMMARY

电池生产商信息/Manufacturer information			
电池生产商 Manufacturer	东莞市宏盛泽能源科技有限公司 Dongguan Hongshengze Energy Technology Co., Ltd.		
生产商地址 Address	东莞市桥头镇东江村桥东路南五街 66 号 4 栋 5 楼 Floor 5, building 4, No.66, South Fifth Street, Qiaodong Road, Dongjiang Village, Qiaotou Town, Dongguan City, Guangdong, P. R. China		
联系电话/Tell	+86-13500064861	电子邮箱 E-mail	172005036@qq.com
网站地址/website	https://hszxny@1688.com		
电池信息/Battery information			
电池类型 Type	锂离子单电芯电池 Lithium ion single cell battery	型号 Model	HSZ 654060
额定能量 Rated Energy	7.4Wh	电池质量 Mass	约 35.056g
物理形状说明 Physical description	银色长方体 Silver Cuboid		
测试机构信息/Test laboratory information			
测试机构 test laboratory	深圳市通测检测技术有限公司 Shenzhen TCT Testing Technology Co., Ltd		
机构地址 Address	广东省深圳市宝安区福海街道桥头社区稔山工业区振昌胶粘制品厂 2101、2201 2101 & 2201, Zhenchang Factory, Renshan Industrial Zone, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China		
联系电话 Tell	400-6611-140	电子邮箱 E-mail	service@tct-lab.com
网站地址/website	http://www.tct-lab.com		
测试报告信息/Test report information			
报告编号/Test report ID	TCT250730B028		
接样日期 Receiving date	2025-07-15	测试日期 Testing date	2025-07-21 ~2025-08-06
测试人员 Tester	贾青	批准人员 Approver	陈祖铭

测试项目及结论/Test item and result

条款/Clause	测试项目/Test Item	结论/Result	备注/Remark
38.3.3(f)	小型集成电池 small battery assemblies	不适用 N/A	/
38.3.3(g)	大型集成电池 Large battery assemblies	不适用 N/A	/
38.3.4.1	高度模拟/Altitude simulation	通过/Pass	/
38.3.4.2	温度试验/Thermal test	通过/Pass	/
38.3.4.3	振动/Vibration	通过/Pass	/
38.3.4.4	冲击/Shock	通过/Pass	/
38.3.4.5	外部短路/External short circuit	通过/Pass	/
38.3.4.6	重物冲击/Impact	不适用 N/A	/
	挤压/Crush	通过/Pass	/
38.3.4.7	过度充电/Overcharge	通过/Pass	/
38.3.4.8	强制放电/Forced discharge	通过/Pass	/

结论/Result：

样品满足联合国《试验与标准手册》第 8 修订版第 38.3 节的测试要求。

The sample meets the requirement of UNITED NATIONS Manual of Tests and Criteria ST/SG/AC.10/11/Rev.8, Section 38.3.

*测试摘要信息由委托客户提供。

The information of Test Summary about UN38.3 is provided by client.

运输信息 Transport Information		
件数 **Pieces**		托运人或托运人代理人声明 本人（本单位）声明：上述运输信息填写真实、准确，鉴定报告已获得委托单位的授权使用，实际运输的货物情况与本鉴定报告一致。如因信息填写错误、实际运输的货物情况与本鉴定报告不一致造成的一切后果，由本人（本单位）承担全部责任，并赔偿对承运人造成的全部损失。 托运人或托运人代理人签字： 盖章：
运单号 **Waybill No.**		
目的港 **Destination**		

——以下无内容——

中国认可
检验
INSPECTION
CNAS IB0396

运输危险性鉴定报告

Hazard Classification and Identification Report for Transport

(海运/by Sea)

物品名称:	reTerminal E1002 电子墨水屏 E1002 内置 锂离子聚合物电池 HSZ 654060 3.7V 2000mAh 7.4Wh
Goods Name	reTerminal E1002 ePaper Display E1002 Containing Lithium-ion Polymer Battery HSZ 654060 3.7V 2000mAh 7.4Wh
委托单位:	深圳矽递科技股份有限公司
Client	Seeed Technology Co., Ltd.
报告编号:	DGT2375DL8045271F
Report No.	
生效日期:	2025-09-05
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中国民用航空总局第二研究所

The Second Research Institute of CAAC

2025-09-05 第 1 次打印

声 明

STATEMENT

1.本《鉴定报告》依据本年度国际海事组织《国际海运危险货物规则》、委托人（托运人或代理人）提供的物品及其运输信息出具。

The certificate is issued by The Second Research Institute of CAAC according to IMO IMDG Code published in the current year and the information of the goods and its shipment provided by the client (shipper or its agent).

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Objections to the certificate must be submitted to The Second Research Institute of CAAC within 15 days.

地址：成都双流西航港经济开发区腾飞路 765 号

Address: No.765, Tengfei Road, Xihanggang Economic Development Zone, Shuangliu, Chengdu, Sichuan

电话(Tel)：028-64458155 028-64458156

传真(Fax)：028-64458195

邮编(Post Code)：610200

报告查询网址：http://service.caacdgt.com

运输危险性鉴定报告

Hazard Classification and Identification Report for Transport

鉴定目的 **Inspection Purpose**	是否属于海运危险品 Dangerous goods or not restricted		
样品编号 **Sample No.**	DGT2375DL8045271	接样日期 **Receiving Date**	2025-09-04
鉴定依据 **Criteria**	国际海事组织《国际海运危险品规则》42-24 2024 版 IMO International Maritime Dangerous Goods(IMDG) Code 42-24 2024 Edition		
样品名称 **Sample Name**	reTerminal E1002 电子墨水屏 E1002 内置 锂离子聚合物电池 HSZ 654060 3.7V 2000mAh 7.4Wh reTerminal E1002 ePaper Display E1002 Containing Lithium-ion Polymer Battery HSZ 654060 3.7V 2000mAh 7.4Wh		
委托单位 **Client**	深圳矽递科技股份有限公司 Seeed Technology Co., Ltd.		
电池生产单位 **Manufacturer**	东莞市宏盛泽能源科技有限公司 Dongguan Hongshengze Energy Technology Co., Ltd.		
物品信息 **Sample Information**	**-电池信息/Battery information：** 型号/ Model: HSZ 654060 3.7V 2000mAh 7.4Wh 类型/Type:锂离子单电芯电池/Lithium ion single cell battery 商标/Brand Mark: / **-包装信息/Package information：** 包装件内含 30 个设备及 30 个锂电池。 The package contains 30 equipment and 30 Lithium batteries. 设备型号/ Equipment Model: E1002		
鉴定结论 **Conclusion**	1.危险性识别(Hazards Identification) 锂离子电池 Lithium Ion Batteries 2. 按照 IMO IMDG Code 办理的类型（Suggestion according to IMO IMDG Code） 该样品满足特殊规定 188，按非限制性货物条件办理。 The sample is not subject to the IMO IMDG Code according to Special Provision 188. 3.包装要求(Packing requirements) 无 None 鉴定单位盖章(Stamp) 签发日期(Issued Date):2025-09-05		
备注（Comment）	每个设备内含 1 个锂电池。		

检验: 罗成 审核: 批准:

(Inspected by) (Checked by) (Approved by)

运输危险性鉴定报告

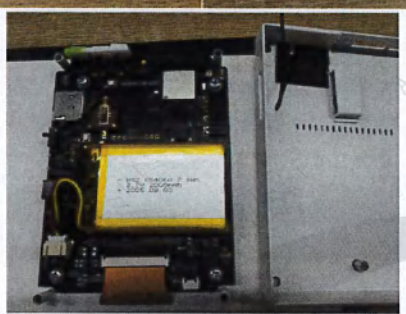
Hazard Classification and Identification Report for Transport

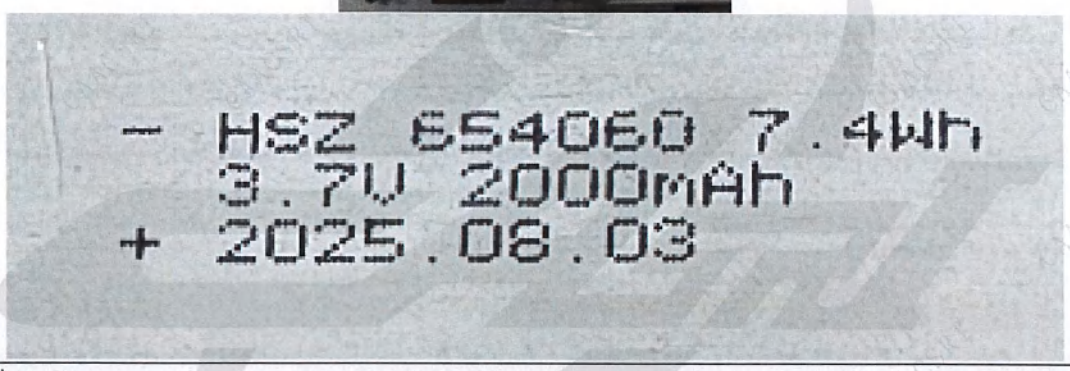
	检验结果及其他事项 **Inspection results and other information**
1	本报告所述锂电池按照《国际海运危险品规则》42-24 2024 版 2.9.4.5 规定的质量管理体系进行制造。 Lithium batteries listed in this report are manufactured under the quality management program as described in IMO IMDG Code 42-24 2024 Edition 2.9.4.5. 本报告所述锂电池不属于有缺陷或已损坏的锂电池。 Lithium batteries listed in this report are not damaged or defective lithium batteries. 本报告所述锂电池不属于为处理或回收而运输的锂电池。 Lithium batteries listed in this report are not disposal or recycling lithium batteries.
2	本报告所述锂电池已经通过联合国《试验与标准手册》第III部分第 38.3 节的测试。测试摘要详见附件。 Lithium batteries listed in the report are of the type proved to meet the requirements of each test of the UN *Manual of Tests and Criteria,* Part III, subsection 38.3. The test summary is detailed in the attachment.
3	本报告所述锂电池具有适当的防外部短路措施。 Lithium batteries are equipped with an effective means of preventing external short circuits. 设备固定在外包装内以免移动。 The equipment is secured against movement within the outer packaging. 设备配置防止发生意外启动的有效手段。 The equipment is equipped with an effective means of preventing accidental activation. 设备装入由适当材料构造的坚固外包装件内。 The equipment is packed in strong rigid outer packaging constructed of suitable materials.
4	每个包装件必须耐久清晰的标识锂电池标记。 Each package must be durably and legibly marked with the lithium battery mark. 本要求不适用于： –包装件仅含有安装在设备（包括线路板）内的钮扣电池；或 –当托运货物中含有不超过两个包装件，且每一个包装件内含有装在设备中的不超过四个电芯或两个电池。 This requirement does not apply to: –packages containing only button cell batteries installed in equipment(including circuit boards); or –package containing no more than four cells or two batteries installed in equipment, where there are not more than two packages in the consignment.
5	附图/pictures

锂电池及设备/Lithium Battery & Equipment:









包装件/Package:











中国民用航空总局第二研究所 检验专用章

——以下无正文内容——

附件：

测试摘要
TEST SUMMARY

电池生产商信息/Manufacturer information			
电池生产商 Manufacturer	东莞市宏盛泽能源科技有限公司 Dongguan Hongshengze Energy Technology Co., Ltd.		
生产商地址 Address	东莞市桥头镇东江村桥东路南五街 66 号 4 栋 5 楼 Floor 5, building 4, No.66, South Fifth Street, Qiaodong Road, Dongjiang Village, Qiaotou Town, Dongguan City, Guangdong, P. R. China		
联系电话/Tell	+86-13500064861	电子邮箱 E-mail	172005036@qq.com
网站地址/website	https://hszxny@1688.com		
电池信息/Battery information			
电池类型 Type	锂离子单电芯电池 Lithium ion single cell battery	型号 Model	HSZ 654060
额定能量 Rated Energy	7.4Wh	电池质量 Mass	约 35.056g
物理形状说明 Physical description	银色长方体 Silver Cuboid		
测试机构信息/Test laboratory information			
测试机构 test laboratory	深圳市通测检测技术有限公司 Shenzhen TCT Testing Technology Co., Ltd		
机构地址 Address	广东省深圳市宝安区福海街道桥头社区稔山工业区振昌胶粘制品厂 2101、2201 2101 & 2201, Zhenchang Factory, Renshan Industrial Zone, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China		
联系电话 Tell	400-6611-140	电子邮箱 E-mail	service@tct-lab.com
网站地址/website	http://www.tct-lab.com		
测试报告信息/Test report information			
报告编号/Test report ID	TCT250730B028		
接样日期 Receiving date	2025-07-15	测试日期 Testing date	2025-07-21 ~2025-08-06
测试人员 Tester	贾青	批准人员 Approver	陈祖铭

测试项目及结论/Test item and result

条款/Clause	测试项目/Test Item	结论/Result	备注/Remark
38.3.3(f)	小型集成电池 small battery assemblies	不适用 N/A	/
38.3.3(g)	大型集成电池 Large battery assemblies	不适用 N/A	/
38.3.4.1	高度模拟/Altitude simulation	通过/Pass	/
38.3.4.2	温度试验/Thermal test	通过/Pass	/
38.3.4.3	振动/Vibration	通过/Pass	/
38.3.4.4	冲击/Shock	通过/Pass	/
38.3.4.5	外部短路/External short circuit	通过/Pass	/
38.3.4.6	重物冲击/Impact	不适用 N/A	/
	挤压/Crush	通过/Pass	/
38.3.4.7	过度充电/Overcharge	通过/Pass	/
38.3.4.8	强制放电/Forced discharge	通过/Pass	/

结论/Result：

样品满足联合国《试验与标准手册》第 8 修订版第 38.3 节的测试要求。

The sample meets the requirement of UNITED NATIONS Manual of Tests and Criteria ST/SG/AC.10/11/Rev.8, Section 38.3.

*测试摘要信息由委托客户提供。

The information of Test Summary about UN38.3 is provided by client.

运输信息
Transport Information

件数 **Pieces**		本栏内容由托运人或其代理人在使用本鉴定书时填写，不属于鉴定内容。运输信息及实际运输货物与鉴定书的一致性由托运人或其代理人保证并承担全部责任。请认真填写本栏内容并盖章。 签字人： 盖章：
运单号 **Waybill No.**		
目的港 **Destination**		

——以下无内容——