

材料安全数据表

Material Safety Data Sheet

产 品 名 称: 家庭应急便携电源

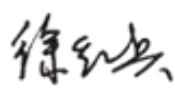
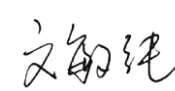
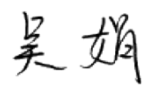
Name of Products: HomePower ONE Pro

委 托 单 位:

Applicant: Geneverse Energy Inc.

生 产 单 位:

Factory: 深圳市华宝新能源股份有限公司
Shenzhen Hello Tech Energy Co., Ltd

检测人 Tester		审核人 Reviewer		批准人 Approver	
项目工程师 / Project Engineer		项目工程师 / Project Engineer		主管工程师 / Chief Engineer	

广东联鼎检测科技有限公司

GUANGDONG UTL CO., LTD.



TEST REPORT

Report No.: PNS220516142 01011

Page 2 of 14

1. Identification of the product and supplier (产品和厂商信息)

样品名称 Name of goods	家庭应急便携电源 HomePower ONE Pro
样品型号 Type/Model	GE-1200B
规格 Rating	Capacity: Lithium-ion 31.5Ah / 38.4V (1209.6Wh)
委托单位 Commissioned by	Geneverse Energy Inc.
委托单位地址 Commissioner address	48531 Warm Springs Blvd, STE 413, Fremont, CA 94539
生产厂 Manufacturer's name	深圳市华宝新能源股份有限公司 Shenzhen Hello Tech Energy Co., Ltd
生产厂地址 Manufacturer address	深圳市龙华区大浪街道同胜社区华繁路东侧嘉安达科技工业园厂房七第二、三层 F2-3, Bldg. 7, Jiaanda Science and Technology Industrial Park Factory, The East Side of Huafan Road, Tongsheng Community, Dalang Street, Longhua District, Shenzhen, Guangdong, China
鉴定依据 Inspection according to	联合国《关于危险品货物运输的建议书》 UN "Recommendations on the TRANSPORT OF DANGEROUS GOODS"
紧急联系电话 Emergency telephone call	+86-755-29106556
接样日期 / Receiving date: 2022-04-26	
签发日期 / Date of issue: 2022-05-20	



TEST REPORT

Report No.: PNS220516142 01011

Page 3 of 14

2. Composition Information (成分/组成信息)

化学成分 Chemical Composition	化学式 Chemical Formula	重量百分比 Weight(%)	CAS编号 CAS Number
磷酸铁锂/ Lithium Iron Phosphate	LiFePO ₄	34.78	15365-14-7
聚偏氟乙烯/ Polyvinylidene Fluoride (PVDF)	(CH ₂ -CF ₂) _n	0.85	24937-79-9
石墨/ Graphite	C ₂₄ X ₁₂	17.79	7782-42-5
炭黑/ Carbon Black	C	1.25	1333-86-4
羧甲基纤维素/ Carboxymethylcellulose	C ₈ H ₁₆ NaO ₈	0.32	9000-11-7
丁苯橡胶/ Styrene Butadiene Rubber (SBR)	(C ₈ H ₈ .C ₄ H ₆) _x	0.41	9003-55-8
六氟磷酸锂/ Lithium Hexafluorophosphate	LiPF ₆	1.78	21324-40-3
碳酸乙烯酯/ Ethylene Carbonate	C ₃ H ₄ O ₃	3.98	96-49-1
碳酸二甲酯/ Dimethyl Carbonate	C ₃ H ₆ O ₃	5.49	616-38-6
碳酸甲乙酯/ Ethyl Methyl Carbonate	C ₄ H ₈ O ₃	2.8	623-53-0
甲基二磺酸亚甲酯/ Dipotassium Methionate	CH ₂ K ₂ O ₆ S ₂	0.1	6291-65-2
聚丙烯/ Polypropylene	(C ₃ H ₆) _n	3.31	9003-07-0
铝/ Aluminium	Al	3.86	7429-90-5
铜/ Copper	Cu	7.3	7440-50-8
铁/ Iron	Fe	15.98	7439-89-6

3. Hazards Identification(危险性概述)

爆炸危险性 Explosive risk	该物品不属于爆炸危险品 This article does not belong to the explosion dangerous goods
易燃危险性 Flammable risk	该物品不属于易燃危险品 This article does not belong to the flammable material
氧化危险性 Oxidation risk	该物品不属于氧化危险品 This article does not belong to the oxidation of dangerous goods
毒害危险性 Toxic risk	该物品不属于毒害危险品 This article does not belong to the toxic dangerous goods
放射危险性 Radioactive risk	该物品不属于放射危险品 This article does not belong to the radiation of dangerous goods
腐蚀危险性 Mordant risk	该物品不属于腐蚀危险品 This article does not belong to the corrosion of dangerous goods
其他危险性 Other risk	该电池瓦时率为1209.6Wh，属于第九类危险品货物。 Watt hour rate 1209.6Wh which belong to the Class 9 of dangerous goods.



TEST REPORT

Report No.: PNS220516142 01011

Page 4 of 14

4. First aid measures (急救措施)

眼睛:

万一接触, 立即用大量的清水冲洗至少15 分钟, 翻起上下眼睑, 直到化学的残留物消失为止, 迅速就医。

Eye

Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

皮肤:

万一接触, 用大量水冲洗至少15 分钟, 同时除去污染的衣物和鞋子, 迅速就医。

Skin

Remove contaminated clothes and rinse skin with plenty of water or shower for 15 minutes. Get medical aid.

吸入:

立即从暴露处移至空气清新处, 如果呼吸困难给予输氧, 立即就医。

Inhalation

Remove from exposure and move to fresh air immediately. Use oxygen if available.

食入:

饮用两杯牛奶或水。如果当事人仍然清晰可以采取催吐的方法, 并且立即就医。

Ingestion

Give at least 2 glasses of milk or water. Induce vomiting unless patient is unconscious. Call a physician.

5. Fire-fighting measures (消防措施)

燃点: 不适用

Flash Point: N/A.

自燃温度: 不适用

Auto-Ignition Temperature: N/A.

灭火介质: 大量水(降温), 二氧化碳

Extinguishing Media: Water, CO2.

特殊灭火程序: 自给式呼吸器

Special Fire-Fighting Procedures: Self-contained breathing apparatus.

异常火灾或爆炸: 当电芯暴露于过热的环境中时, 安全阀可能会打开。

Unusual Fire and Explosion Hazards:

Cell may vent when subjected to excessive heat-exposing battery contents.

燃烧产生的危险物品: 一氧化碳, 二氧化碳, 锂氧化物烟气

Hazardous Combustion Products: Carbon monoxide, carbon dioxide, lithium oxide fumes.



TEST REPORT

Report No.: PNS220516142 01011

Page 5 of 14

6. Accidental release measures (泄漏应急处理)

为防止电池材料泄露或释放采取的措施

如果电池内部材料泄露，试验人员应立刻撤离试验区直到烟气消散。将通风设备打开吹散危险性气体。用抹布擦净试验区，清除溢出的液体，将泄露电池放进塑料袋中，然后放进钢制容器。避免皮肤和眼睛接触或吸入有害气体。

Steps to be Taken in case Material is Released or Spilled

If the battery material is released, remove personnel from area until fumes dissipate. Provide maximum ventilation to clear out hazardous gases. Wipe it up with a cloth, and dispose of it in a plastic bag and put into a steel can. The preferred response is to leave the area and allow the battery to cool and vapors to dissipate. Provide maximum ventilation. Avoid skin and eye contact or inhalation of vapors. Remove spilled liquid with absorbent and incinerate.

废弃物处置方法

建议将电池完全放电，消耗电池内部的锂金属，并且深埋于土壤中。

Waste Disposal Method

It is recommended to discharge the battery to the end, to use up the metal lithium inside the battery, and to bury the discharged battery in soil.

7. Handling and storage (操作处置和储存)

禁止打开、毁坏或焚烧电池，因为电池有可能在这些处理过程中发生爆炸、破裂或泄露等事故。

禁止将电池短路、过充、强制放电或扔入火中。禁止挤压刺穿电池或将电池浸入溶液中。

The battery should not be opened, destroyed or incinerate, since they may leak or rupture and release to the environment the ingredients that they contain in the hermetically sealed container.

Do not short circuit terminals, or over charge the battery, forced over-discharge, throw to fire.

Do not crush or puncture the battery, or immerse in liquids.

操作处置和储存中的防范措施

禁止物理或电滥用，禁止高温储存，最好将电池储存在阴凉、干燥、通风及温度变化较小的环境中。

禁止将电池接触加热设备或将电池直接暴露与阳光中。

Precautions to be taken in handling and storing

Avoid mechanical or electrical abuse. Storage preferably in cool, dry and ventilated area, which is subject to little temperature change. Storage at high temperatures should be avoided. Do not place the battery near heating equipment, nor expose to direct sunlight for long periods.

其他要注意的防范措施

拆解、挤压、直接放入火中或高温条件下，电池可能发生爆炸和燃烧。禁止短接或将电池正负极错误的安装在设备中。

Other Precautions

The battery may explode or cause burns, if disassembled, crushed or exposed to fire or high temperatures.

Do not short or install with incorrect polarity.



TEST REPORT

Report No.: PNS220516142 01011

Page 6 of 14

8. Exposure controls/personal protection (接触控制/个人防护)

呼吸防护

当电池排气阀打开时, 应尽量使通风设备开至最大, 避免将打开排气阀的电芯局限在某一狭窄空间内。正常操作条件下, 呼吸保护是不必要的。

Respiratory Protection

In case of battery venting, provide as much ventilation as possible. Avoid confined areas with venting cell cores. Respiratory Protection is not necessary under conditions of normal use.

通风条件

正常使用条件下不需要。

Ventilation

Not necessary under conditions of normal use.

防护手套

正常使用条件下不需要。

Protective Gloves

Not necessary under conditions of normal use.

其他防护服或设备

正常使用条件下不需要。

Other Protective Clothing or Equipment

Not necessary under conditions of normal use.

电池开阀试验时应做好个人防护

呼吸防护, 防护手套, 防护服装和有护边的安全玻璃罩都是要准备的。

Personal Protection is recommended for venting battery

Respiratory Protection, Protective Gloves, Protective Clothing and safety glass with side shields.



TEST REPORT

Report No.: PNS220516142 01011

Page 7 of 14

9. Physical and chemical properties (物理和化学特性)

外观: 长方体

Appearance: Cuboid shape

气味: 泄漏时, 有醚的气味。

Odour: If leaking, smells of medical ether.

气味阈值: 不适用。

Odor Threshold: Not applicable.

酸碱度: 不适用。

pH: Not applicable.

熔点/冰点: 不适用。

Melting Point/freezing point: Not applicable.

起始沸点和沸腾范围: 不适用。

Initial boiling point and Boiling range: Not applicable.

闪点: 不适用。

Flash Point: Not applicable.

蒸发速率: 不适用。

Evaporation rate: Not applicable.

易燃性 (固态, 气态): 不适用。

Flammability (solid, gas): Not applicable.

上下易燃极限或爆炸极限: 不适用。

Upper/lower flammability or explosive limits: Not applicable.

蒸汽压力: 不适用。

Vapor Pressure: Not applicable.

蒸汽密度: 不适用。

Vapor Density: Not applicable.

相对密度: 不适用。

Relative density: Not applicable.

溶解性 (水溶性): 不适用。

Solubility (water): Not applicable.

溶解性 (其他): 不适用。

Solubility (other): Not applicable.

n-辛醇/水分配系数: 不适用。

n-octanol/water partition coefficient: Not applicable.

自燃温度: 不适用。

Auto-ignition temperature: Not applicable.

分解温度: 不适用。

Decomposition temperature: Not applicable.



TEST REPORT

Report No.: PNS220516142 01011

Page 8 of 14

10. Stability and reactivity (稳定性和反应活性)

稳定性: 产品在第7节所述的条件下稳定。

Stability: Product is stable under conditions described in Section 7.

应避免的条件: 加热70°C以上或焚烧、变形、毁坏、粉碎、拆卸、过充电、短路。

长时间暴露在潮湿的条件下。

Conditions to avoid: Heat above 70°C or incinerate. Deform. Mutilate. Crush. Disassemble. Overcharge. Short circuit. Expose over a long period to humid conditions.

应避免的材料: 氧化剂, 碱, 水。

Materials to avoid: Oxidising agents, alkalis, water.

危险分解物: 有毒烟雾, 并可能形成过氧化物。

Hazardous Decomposition Products: Toxic Fumes, and may form peroxides.

聚合危害: 不适用

Hazardous Polymerization: N/A.

如果发生泄露, 避免与强氧化剂, 无机酸, 强碱, 卤代烃接触。

If leaked, forbidden to contact with strong oxidizers, mineral acids, strong alkalies, halogenated hydrocarbons.

11. Toxicological information (毒理性资料)

标志及症状: 无, 除非电池破裂。

Signs & symptoms: None, unless battery ruptures.

内部物质暴露的情况下, 蒸汽烟雾可能对眼睛和皮肤的刺激性。

In the event of exposure to internal contents, vapour fumes may be very irritating to the eyes and skin.

吸入: 对肺有刺激性。

Inhalation: Lung irritant.

皮肤接触: 对皮肤刺激性。

Skin contact: Skin irritant

眼睛接触: 对眼睛有刺激性。

Eye contact: Eye irritant

食入: 吞下中毒。

Ingestion: Poisoning if swallowed

下列情况下健康状况会恶化: 万一发生与电池内部材料接触的事故, 轻微或严重的刺激, 都可能使皮肤出现干燥和灼烧的感觉, 并且损坏靶器官(肝脏, 肾脏)的神经。

Medical conditions generally aggravated by exposure: In the event of exposure to internal contents, moderate to server irritation, burning and dryness of the skin may occur, Target organs nerves, liver and kidneys.



TEST REPORT

Report No.: PNS220516142 01011

Page 9 of 14

12. Ecological information (生态学资料)

对哺乳动物的影响: 目前未知。

Mammalian effects: None known at present.

生态毒性: 目前未知。

Eco-toxicity: None known at present.

生物体内积累: 慢慢地生物降解。

Bioaccumulation potential: Slowly Bio-degradable.

环境危害: 目前没有已知的环境危害。

Environmental fate: None known environmental hazards at present.

13. Disposal consideration (废弃处置)

不要焚烧, 或使电池温度超过70°C, 这种滥用可导致泄漏和/或电池爆炸。按照相应的地方性法规处理。

Do not incinerate, or subject cells to temperature in excess of 70°C, Such abuse can result in loss of seal leakage, and/or cell explosion. Dispose of in accordance with appropriate local regulations.



TEST REPORT

Report No.: PNS220516142 01011

Page 10 of 14

14. Transport information (运输信息)

运输标签: 第9类危险品标签

Label for conveyance: Dangerous Goods Class 9 Label.

UN编号: UN3480

UN Number: UN3480

包装等级: Group II

Packing Group: Group II

EmS编号: F-A, S-I

EmS No: F-A, S-I

海洋污染物: 无

Marine pollutant: No

在其场地内外进行运输或传送时, 用户需要了解或需要遵守的特殊预防措施: 无其它信息。

Special precautions which a user needs to be aware of, or needs to comply with, in connection with transport or conveyance either within or outside their premises: No further information.

UN正确的装运名称: 锂离子电池; (含锂离子聚合物电池)

UN Proper Shipping name: Lithium ion batteries; (Including Lithium ion polymer batteries)

危险分类: 货物应符合国际航空运输协会(IATA)第63版DGR手册包装说明965第IA节规定(2022版), 和国际海运危险货物规则(Amdt.40-20)2020版, 包括通过UN38.3测试手册要求。

Hazard Classification: The goods shall be complied with the requirements of Section IA of Packing Instructions 965 of 63rd DGR Manual of IATA (2022 Edition) and IMDG CODE (Amdt.40-20) 2020 Edition, including the passing of the UN38.3 test.

运输标签: 第九类杂项危险品标识, 第九类危险品标识

Label for conveyance: The Class 9—Miscellaneous Dangerous Goods, the Class 9—Lithium Battery hazard label

UN编号: UN3171 或 UN3481

UN Number: UN3171 or UN3481

包装等级: /

Packing Group: /

EmS编号: F-A, S-I

EmS No: F-A, S-I

海洋污染物: 无

Marine pollutant: No

正确的装运名称: 电池驱动车辆, 锂离子电池装在设备中(包括锂离子聚合物电池),

Proper Shipping name: Battery-powered vehicle, Lithium ion batteries contained in equipment. (including Lithium ion polymer batteries)

危险分类: 货物应遵守IATA 第63版DGR 手册包装说明952或967第I节规定(2022年版)和IMDG CODE (Amdt. 40-20) 2020版, 包括通过UN38.3 测试手册要求。

Hazard Classification: The goods shall be complied with the requirements of Section I of Packing Instructions 952 or 967 of 63rd DGR Manual of IATA (2022 Edition) and IMDG CODE (Amdt. 40-20) 2020 Edition, including the passing of the UN38.3 test.



TEST REPORT

Report No.: PNS220516142 01011

Page 11 of 14

16. Other information (其他信息)

本文件仅对由委托方Geneverse Energy Inc.提供的，并由深圳市华宝新能源股份有限公司生产的电池(GE-1200B)有效。该电池的成分信息由委托方提供并承诺其完整性和准确性。用户应仔细阅读此文件，并按照正确的方法使用电池，如因电池使用不当造成的损害或损失，广东联鼎检测科技有限公司(UTL)不承担任何责任。

This file is only effective to the batteries (GE-1200B) provided by Geneverse Energy Inc. which manufactured by Shenzhen Hello Tech Energy Co., Ltd. The commissioner provides the composition information of batteries, and promises its integrity and accuracy. Users should read this file carefully, and use the batteries in correct method. GUANGDONG UTL CO., LTD. (UTL) doesn't assume responsibility for any damage or loss because of misuse of batteries.



TEST REPORT

Report No.: PNS220516142 01011

Page 12 of 14

Photos 照片



Figure 1 Overall view I of battery (外观图I)



Figure 2 Overall view II of battery (外观图II)



TEST REPORT

Report No.: PNS220516142 01011

Page 13 of 14

Photos 照片



Figure 3 Overall view of cell (电芯外观图)



Figure 4 Battery Label (电池标签)



TEST REPORT

Report No.: PNS220516142 01011

Page 14 of 14

注 意 事 项 Important

1. 未经本试验室书面同意，不得复制或部分地复制本报告。
Nobody is allowed to photocopy or partly photocopy this test report without written permission of UTL.
2. 本报告无批准人、审核人及检测人签名无效。
The test report is invalid without the signatures of Approver, Reviewer and Tester.
3. 本报告涂改无效。
The test report is invalid if altered.
4. 对检验报告若有异议，应于收到报告之日起十五天内向检验单位提出。
Objections to the test report must be submitted to UTL within 15 days.
5. 本报告中以点号代替小数点。
Throughout this report a point is used as the decimal separator.
6. 本报告仅对送检样品负责。
The test report is valid for the tested samples only.
7. 本报告并未授权许可申请单位使用UTL任何UTL的名称、商标、标识等。
The test report does not grant applicant the use of UTL name, trademark or label.
8. 任何情况下检测单位的赔偿责任都不会超过检测单位就本次检测所收取的检测费用。
UTL's liability under no circumstance will exceed the testing fee received from applicant for test conducted hereof this testing report.
9. 检测数据和结果不具备社会证明性作用。
The test data and results do not have social proof function.

***** 报告结束 End of Test Report *****

