

## P/N: 63906-0604

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### **Document identity**

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#### Website

http://www.flir.com

#### **Customer support**

http://support.flir.com

#### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to exportquestions@flir.com with any questions.



#### **General description**

The FLIR Ex series cameras are point-and-shoot infrared cameras that give you access to the infrared world. A FLIR Ex series camera is an affordable replacement for an infrared thermometer, providing a thermal image with temperature information in every pixel. The new MSX and visual formats make the cameras incomparably easy to use.

The FLIR Ex series cameras are user-friendly, compact, and rugged, for use in harsh environments. The wide field of view makes them the perfect choice for building applications.

#### Benefits:

- Easy to use: The FLIR Ex series cameras are fully automatic and focus-free with an intuitive interface for simple measurements in thermal, visual, or MSX mode.
- Compact and rugged: The FLIR Ex series cameras' low weight of 0.575 kg and the accessory belt
  pouch make them easy to bring along at all times. Their rugged design can withstand a 2 m drop
  test, and ensures reliability, even in harsh environments.
- Ground breaking affordability: The FLIR Ex series cameras are the most affordable infrared cameras on the market.

Imaging and optical data		
IR resolution	80 × 60 pixels	
Thermal sensitivity/NETD	<0.15°C (0.27°F) / <150 mK	
Field of view (FOV)	45° × 34°	
Minimum focus distance	0.5 m (1.6 ft.)	
Spatial resolution (IFOV)	10.3 mrad	
F-number	1.5	
Image frequency	9 Hz	
Focus	Focus free	

Detector data	
Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 μm

Image presentation	
Display	3.0 in. 320 × 240 color LCD
Image adjustment	Automatic adjust/lock image

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Image presentation modes			
Image modes		Thermal MSX, Thermal, Picture-in-Picture, Thermal blending, Digital camera.	
Multi Spectral Dynamic Imaging (MSX)		IR image with enhanced detail presentation	
Picture-in-Picture		IR area on visua	l image
Measurement			
Camera temperature range	Object temperat	ure range	Accuracy — for ambient temperature 10 to 35°C (50 to 95°F) and object temperature above 0°C (32°F)
–20 to 250°C (–4 to 482°F)	0 to 100°C (32 to	o 212°F)	±2°C (±3.6°F)
	100 to 250°C (2	12 to 482°F)	±2%
Measurement analysis			
Spotmeter		Center spot	
Area		Box with max./m	in.
Isotherm		Above alarm, Be	elow alarm
Emissivity correction		Variable from 0.	1 to 1.0
Emissivity table		Emissivity table	of predefined materials
Reflected apparent temperature c	orrection	Automatic, based on input of reflected temperature	
Set-up			
Color palettes		Black and white, iron and rainbow	
Set-up commands		Local adaptation of units, language, date and time formats	
Storage of images			
File formats		Standard JPEG, 14-bit measurement data included	
Digital camera			
Digital camera, resolution		640 × 480	
Digital camera, FOV		55° × 43°	
Data communication interfaces	<u> </u>		
Interfaces		USB Micro: Data transfer to and from PC and Mac device	
Wi-Fi		Peer-to-peer (ad hoc) or infrastructure (network)	
Radio			
Wi-Fi		Standard: 802.11 b/g/n     Frequency range:	
		<ul> <li>2400–2480 MHz</li> <li>5150–5260 MHz</li> </ul>	
		Max. output power: 15 dBm	
Power system			
Battery type		Rechargeable Li ion battery	
Battery voltage		3.6 V	
Battery operating time		Approx. 4 hours at +25°C (+77°F) ambient temperature and typical use	

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Power system	
Charging system	Battery is charged inside the camera or in specific charger.
Charging time	2.5 hours to 90% capacity in camera. 2 hours in charger.
Power management	Automatic shut-down
AC operation	AC adapter, 90–260 VAC input, 5 VDC output to camera
Environmental data	
Operating temperature range	-15°C to +50°C (+5°F to +122°F)
Storage temperature range	-40°C to +70°C (-40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity
EMC	<ul> <li>EN 61000-6-2 (Immunity)</li> <li>EN 61000-6-3 (Emission)</li> <li>FCC 47 CFR Part 15 Class B (Emission)</li> <li>RCM</li> </ul>
Radio spectrum	<ul> <li>ETSI EN 300 328</li> <li>ETSI EN 301 893</li> <li>FCC 47 CFR Part 15 C, E</li> <li>RSS-247 Issue 2</li> </ul>
Hazardous substances	<ul><li>WEEE 2012/19/EU</li><li>RoHs 2011/65/EU</li></ul>
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Drop	2 m (6.6 ft.)
Safety	Camera: IEC/EN60950-1

Physical data	
Camera weight, incl. battery	0.575 kg (1.27 lb.)
Camera size $(L \times W \times H)$	244 × 95 × 140 mm (9.6 × 3.7 × 5.5 in.)
Color	Black and gray

Power supply: UL, CSA, CE, PSE, CCC, and SAA

Shipping information		
Packaging, type	Cardboard box	
List of contents	Infrared camera Hard transport case Battery (inside camera) USB cable Power supply/charger with EU, UK, US and Australian plugs Printed documentation	
Packaging, weight	2.9 kg (6.4 lb.)	
Packaging, size	385 × 165 × 315 mm (15.2 × 6.5 × 12.4 in.)	
EAN-13	4743254002869	
UPC-12	845188014117	
Country of origin	Estonia	

## Supplies & accessories:

• T198528; Hard transport case FLIR Ex series

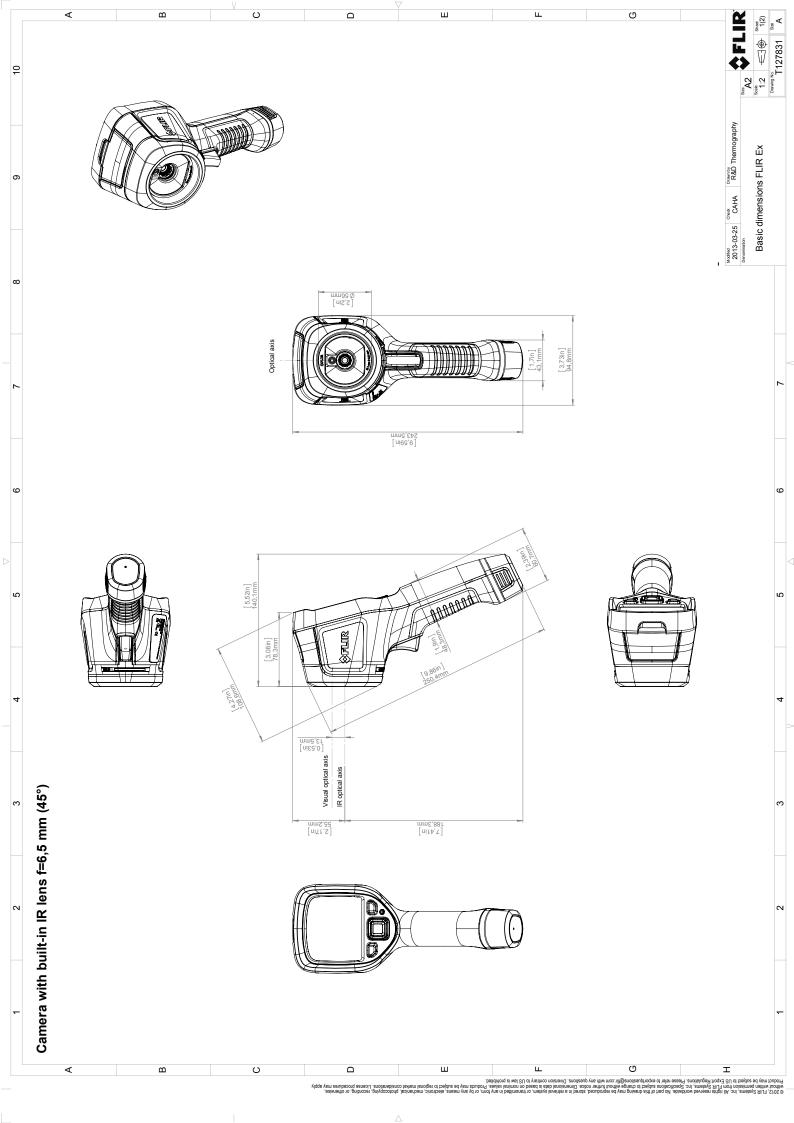


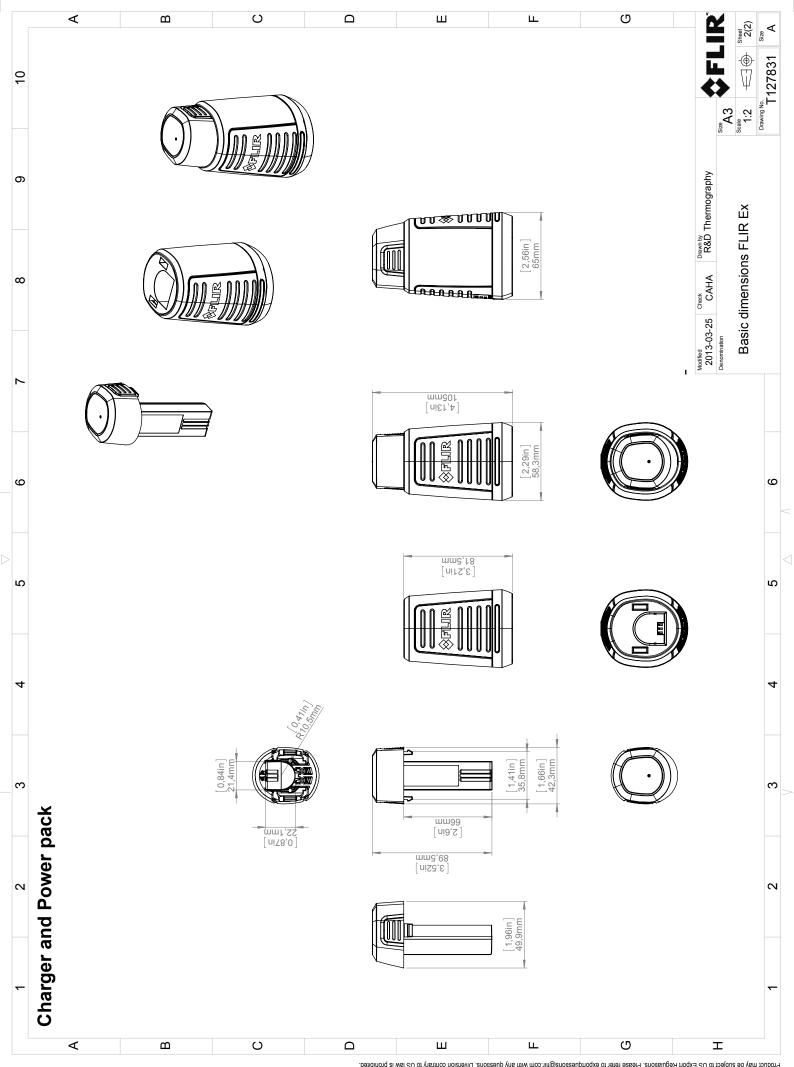
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- T198531; Battery charger incl power supply
- T198532; Car charger
- T198534; Power supply USB-micro
- T198529; Pouch FLIR Ex and ix series
- T198533; USB cable Std A <-> Micro B
- T199362ACC; Battery Li-ion 3.6 V, 2.6 Ah, 9.4 Wh
- T911689ACC; Pouch for FLIR E-series
- T911093; Tool belt
- T300083; FLIR Thermal Studio Pro, Perpetual license
- T300341; FLIR Thermal Studio Standard, 1 Year Subscription
- T300258; FLIR Thermal Studio Standard, Perpetual license
- T198583; FLIR Tools+ (download card incl. license key)
- . T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB
- INST-EW-0110; Extended Warranty 1 Year for AX8, E4, E5
- INST-EWGM-0110; Premium Service Package for E4, E5
- INST-GM-0115; General Maintenance Package for E4, E5, ix, Kx

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January 22, 2018

Täby, Sweden

AQ320224

### **CE Declaration of Conformity – EU Declaration of Conformity**

Product: FLIR EX -series

Name and address of the manufacturer: **FLIR Systems AB** PO Box 7376 SE-187 15 Täby, Sweden

This declaration of conformity is issued under the sole responsibility of the manufacturer.

The object of the declaration: FLIR EX -series (Product Model Name FLIR-E6390).

The object of the declaration described above is in conformity with the relevant Union harmonisation legislation:

**Directives:** 

Directive

2012/19/EU

Waste electrical and electric equipment

Directive:

2011/65/EU

**RoHS** 

Directive

2014/53/EU

Radio Equipment Directive (RED)

Directive

1999/519/EC

Limitation of exposure to electromagnetic fields (SAR)

Standards: Emission:

EN 61000-6-3/A1:2011

**Electromagnetic Compability** Generic standards - Emission

Immunity:

EN 61000-6-2:2005

**Electromagnetic Compability** 

Generic standards – Immunity

Restricted substances (RoHS):

EN 50581:2012

Technical documentation

Radio:

ETSI EN 300 328 v2.1.1

Harmonized EN covering essential

ETSI EN 301 893 v1.8.1 SAR:

requirements of the R&TTE Directive

EN 62209-2

**Human exposure Wireless** 

EN 50566:2013/AC:2014

Compliance (30 MHz – 6 GHz)

1999/519/EC

Limitation (0 Hz to 300 GHz)

Safety (Power supply):

EN 60950

Information technology equipment

**FLIR Systems AB Quality Assurance** 

Lea Dabiri

**Quality Manager** 

SDS No.: 2019081401



## **Safety Data Sheet**

Updated Date: 2019/Aug

### 1. Product and Company Identification

Important Note: As a solid, manufactured article, exposure to hazardous ingredients is not expected with normal use. This battery is an article pursuant to 29 CFR 1910.1200 and, as such, is not subject to the OSHA Hazard Communication Standard requirement. The information contained in this Safety Data Sheet contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

Commercial product name 365-8107(T300109)

<u>Use of the substance/preparation</u> Lithium-Ion battery (INR18650-29E)

Manufacturer Celltech (Zhongshan) Ltd.

#### Address

4th Floor, Building 3 / No. 6 Jiusha Road / Torch Development District / Zhongshan / China

Company/undertaking identification Emergency Contact (CHEMTREC) +86-760-87365930 Further Information

Battery-System: Lithium-Ion (Li-ion)

Nominal Voltage: 3.65V Rated Capacity: 2.75Ah Wh rating: 10.0375Wh

#### Remark:

The information and recommendations set forth are made in good faith and believed to be accurate as of the date of preparation. Celltech (Zhongshan) Ltd. makes no warranty, expressed or implied, with respect to this information and disclaims all liabilities from reliance on it.

### 2. Hazards Identification

Route(s) of Entry

There is no hazard when the measures for handling and storage are followed.

Signs and Symptoms of Exposure



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In case of cell damage, possible release of dangerous substances and a flammable gas mixture.

OSHA Hazard Communication: This material is not considered hazardous by the OSHA Hazard

Communication Standard 29CFR 1910.1200.

Carcinogenicity (NTP): Not listed
Carcinogenicity (IARC): Not listed
Carcinogenicity (OSHA): Not listed

Special hazards for human health and environment

There is no hazard when the measures for handling and storage are followed.

In case of cell damage, possible release of dangerous substances and a flammable gas mixture.

Explication of special hazards for human health and environment

Not classified as dangerous according to directive 1999/45/EEC

There is no hazard when the measures for handling and storage are followed.

In case of cell damage, possible release of dangerous substances and a flammable gas mixture.

### 3. Composition/information on ingredients

#### Hazardous components

	Chemical Name	CAS No.	*Mass range in cell (g/g %)
Electrolyte	Contains Electrolyte salt and solvents.		5-20
Electrolyte salt	Lithium hexafluorophosphate	21324-40-3	0.05-5
Electrolyte solvent	Includes one or more of the following; Ethelyne Carbonate Propylene Carbonate Diethyl Carbonate	96-49-1 108-32-7 105-58-8	5-20
PVDF	Polyvinylidenfluoride	24937-79-9	<1
Copper	Cu	7440-50-8	3-15
Aluminium	Al	7429-90-5	2-10
Cathode	Lithium cobalt oxide	12190-79-3	20-50
Anode	Graphite	7782-42-5	10-30
Steel, Nickel, and inert components		Various	Balance

### Further Information

For information purposes:

(\*) Main ingredients: Lithium hexafluorophosphate, organic carbonates

Because of the cell structure the dangerous ingredients will not be available if used properly. During charge process a lithium graphite intercalation phase is formed.

 $\begin{tabular}{lll} Mercury content: & Hg < 0.1 mg/kg \\ Cadmium content: & Cd < 1 mg/kg \\ Lead content: & Pb < 10 mg/kg \\ \end{tabular}$ 



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#### 4. First Aid Measures

General information

The following first aid measures are required only in case of exposure to interior battery components after damage of the external battery casing.

Undamaged, closed cells do not represent a danger to the health.

After inhalation

Ensure of fresh air. Consult a physician.

After contact with skin

In case of contact with skin wash off immediately with plenty of water.

Consult a physician.

After contact with eyes

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Seek medical treatment by eye specialist.

After ingestion

Drink plenty of water.

Call a physician immediately.

#### 5. Fire Fighting Measures

Suitable extinguishing media

Cold water and dry powder in large amount are applicable.

Use metal fire extinction powder or dry sand if only few cells are involved.

Special hazards arising from the chemical

May form hydrofluoric acid if electrolyte comes into contact with water.

In case of fire, the formation of the following flue gases cannot be excluded: Hydrogen

fluoride (HF), Carbon monoxide and carbon dioxide.

Protective equipment and precautions for firefighters

Wear self-contained breathing apparatus and protective suit. Additional

information

If possible, remove cell(s) from fire fighting area. If heated above  $125^{\circ}$ C, cell(s) can explode/vent. Cell is not flammable but internal organic material will burn if the cell is incinerated.

### 6. Accidental Release Measures

Personal precautions

Use personal protective clothing.

Avoid contact with skin, eyes and clothing. Avoid

breathing fume and gas.

Environmental precautions

Do not discharge into the drains/surface waters/groundwater. Methods for

cleaning up/taking up

Take up mechanically and send for disposal.

### 7. Handling and Storage



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## **Handling**

Advice on safe handling

Avoid short circuiting the cell. Avoid mechanical damage of the cell. Do not open or disassemble. Advice on protection against fire and explosion

Keep away from open flames, hot surfaces and sources of ignition.

### Storage

Requirements for storage rooms and vessels

Storage at room temperature (approx.  $20^{\circ}$ C) at humidity approx. 60% of the nominal capacity. Keep in closed original container.

### 8. Exposure controls/personal protection Exposure limit values Exposure limits

Ingredient	Risk Codes	Safety Description	Hazard	Exposure Controls/Personal Protection
Lithium Cobalt oxide	R22;R43; R50/53	S24; S37; S60; S61	Xn(Harmful) (Dangerous for the environment)	0.1 mg/m3 (TWA)
Manganese (VI) oxide	R20/22	S25	Xn(Harmful)	Airborne Exposure Limits: - OSHA Permissible Exposure Limit (PEL): 5 mg/m3 Ceiling for manganese compounds as Mn - ACGIH Threshold Limit Value (TLV): 0.2 mg/m3 (TWA) for manganese, elemental and inorganic compounds as Mn
Nickel oxide	R43,R49 R53, R36/37/38	S45,S53,S61	T(Toxic)	Airborne Exposure Limits: For Nickel, Metal and Insoluble Compounds, as Ni: OSHA Permissible Exposure Limits (PEL) Img/m3 (TWA). For Nickel, Elemental / Metal: ACGIH Threshold Limit Value (TLV) I.5 mg/m3 (TWA), A5 - Not suspected as a human carcinogen. For Nickel, Insoluble Compounds, as Ni: ACGIH Threshold Limit Value (TLV) O.2 mg/m3 (TWA), A1 - Confirmed human carcinogen
Carbon	R36/37 R20, R10	S22; S24/25	F (Highly Flammable) Xn (Harmful) Xi(Irritant)	Airborne Exposure Limits: - OSHA Permissible Exposure Limits (PELs): activated carbon (graphite, synthetic): Total particulate = 15 mg/m3
Aluminium foil	R17,R15 R36/38 R10,R67, R65,R62 R51/53, R48/20, R38.R11	S7/8,S43,S26,S62, S61, S36/37, S33, S29, S16, S9	F(Highly Flammable) Xn(Harmful) Xi(Irritant)	Airborne Exposure Limits: -OSHA Permissible Exposure Limit (PEL): 15 mg/m3 (TWA) total dust and 5 mg/m3(TWA) Repairable fraction for Aluminum metal as Al -ACGIH Threshold Limit Value (TLV): 10 mg/m3 (TWA) Aluminum metal dusts
Copper foil	R11 R36 R37 R38	S5, S26, S16, S61, S36/37	F(Highly Flammable) N(Dangerous for the environment) Xn(Harmful) Xi(Irritant)	Copper Dust and Mists, as Cu:  OSHA Permissible Exposure Limit (PEL) -  1 mg/m3 (TWA)  ACGIH Threshold Limit Value (TLV) -  1 mg/m3 (TWA)  Copper Fume:  OSHA Permissible Exposure Limit (PEL)  0.1 mg/m3 (TWA)  ACGIH Threshold Limit Value (TLV) -  0.2 mg/m3 (TWA)
Polyvinylide ne fluoride(PVdF)		S22;S24/25		



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Full text of each relevant R phrase can be found in heading 16.

Additional advice on limit values

During normal charging and discharging there is no release of product.

Occupational exposure controls

No specific precautions necessary.

Protective and hygiene measures

When using do not eat, drink or smoke. Wash hands before breaks and after work.

Respiratory protection

No specific precautions necessary.

Hand protection

No specific precautions necessary.

Eye protection

No specific precautions necessary.

Skin protection

No specific precautions necessary.

### 9. Physical and Chemical Properties

**Appearance** 

Form: Solid Color: Various Odor: Odourless

Important health, safety and environmental information

Test method

PH Value: n.a.
Flash point: n.a
Lower explosion limits: n.a.
Vapour pressure: n.a.
Density: n.a.
Water solubility: Insoluble
Ignition temperature: n.a.

### 10. Stability and Reactivity USA, EU

Stability

Stable

Conditions to avoid

Keep away from open flames, hot surfaces and sources of ignition. Do not puncture, crush or incinerate.

Materials to avoid

No materials to be especially mentioned.

Hazardous decomposition products

In case of open cells, there is the possibility of hydrofluoric acid and carbon monoxide release.

Possibility of Hazardous Reactions

Will not occur

Additional information

No decomposition if stored and applied as directed.



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#### 11. Toxicological Information

Empirical data on effects on humans

If appropriately handled and if in accordance with the general hygienic rules, no damages to health have become known.

#### 12. Ecological Information

Further information

Ecological injuries are not known or expected under normal use. Do not flush into surface water or sanitary sewer system.

#### 13. Disposal Considerations

Advice on disposal

For recycling consult manufacturer.

Contaminated packaging

Disposal in accordance with local regulations.

#### 14. Transport Information

The rechargeable Lithium-Ion battery pack as stated in Appendix are made in compliance to the requirements stated in the latest edition of the IATA Dangerous Goods Regulations Packing Instruction 965 section IB such that they can be transported as dangerous goods. However, if those lithium-ion battery packs are pack with or contained in an equipment, then it is the responsibility of the shipper to ensure that the consignment are packed in compliance to the 60th edition of the IATA Dangerous Goods Regulations section II of Packing Instruction 966 or 967 in order for that consignment to be declared as Non Dangerous Goods.

With regard to transport, the following regulations are cited and considered:

- The International Civil Aviation Organization (ICAO) Technical Instructions (2019-2020 Edition),
- The International Air Transport Association (IATA) Dangerous Goods Regulations (60th Edition, 2019)
- The International Maritime Dangerous Goods (IMDG) Code (2016 Edition, IMDG 37-14 Edition, Special Provision 188),
- US Hazardous Materials Regulations 49 CFR (Code of Federal Regulations)
   Sections 173.185 Lithium batteries and cells,
- The UN Recommendations on the Transport of Dangerous Goods, Manual of Tests and Criteria 38.3 Lithium batteries, 6<sup>th</sup> revised edition
- UN No. 3480

Our products are properly classified, described, packaged, marked, and labeled, and are in proper condition for transportation according to all the applicable international and national governmental regulations, not limited to the above mentioned. We further certify that the enclosed products have been tested and fulfilled the requirements and conditions in accordance with UN Recommendations (T1 - T8) on the Transport of Dangerous Goods Model Regulations and the Manual of Testes and Criteria that can be treated as "Dangerous Goods".

Test results of the UN Recommendation on the Transport of Dangerous Goods

Manual of Te	est and Criteria (38.3 Lithium battery)	Test Results	Remark
No	Test item		
T1	Altitude Simulation	Pass	
T2	Thermal Test	Pass	
T3	Vibration	Pass	
T4	Shock	Pass	
T5	External Short Circuit	Pass	
T6	Impact	Pass	
T7	Overcharge	Pass	For pack only
T8	Forced Discharge	Pass	For cell only

The Batteries are protected so as to prevent short circuits including protection against contact with conductive materials Within the same packaging that could lead to a short circuit. The Batteries have been packed according to PI965, Section IB of the current 60th edition of the IATA Dangerous Goods Regulations 2019, therefore they can be carried as Dangerous Goods.

The outer packaging has been tested to protect the lithium batteries from damage caused by falling from a height of up to 1.2m. The Batteries have been tested to the safety standards of the UN Manual of Tests and Criteria, Part III, Subsection 38.3.



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### 15. Regulatory Information U.S. Regulations

National Inventory TSCA

All of the components are listed on the TSCA inventory.

#### SARA

To the best of our knowledge this product contains no toxic chemicals subject to the supplier notification requirements of Section 313 of the Superfund Amendments and Reauthorization Act (SARA/EPCRA) and the requirements of 40 CFR Part 372.

### 16. Regulatory information EU

#### Labeling

Hazardous components which must be listed on the label

As an article the product does not need to be labeled in accordance with EC directives or respective national laws.

EU regulatory information

1999/13/EC (VOC): 0 %

## 17. Other Information

Hazardous Materials Information Label (HMIS)

Health: 0 Flammability: 0 Physical Hazard: 0

#### NFPA Hazard Ratings

Health: 0 Flammability: 0 Reactivity: 0 Unique Hazard:

Full text of R-phrases referred to under sections 2 and 3

R10 Flammable.

R20/22 Harmful by inhalation and if swallowed.

R22 Harmful if swallowed. R34 Causes burns.

R40 Limited evidence of a carcinogenic effect.
R43 May cause sensitization by skin contact.

R48/23 Toxic: danger of serious damage to health by prolonged exposure through inhalation.

R49 May cause cancer by inhalation. R50 Very toxic to aquatic organisms.

R53 May cause long-term adverse effects in the aquatic environment.

#### **Further Information**

Data of sections 4 to 8, as well as 10 to 12, do not necessarily refer to the use and the regular handling of the product (in this sense consult package leaflet and expert information), but to release of major amounts in case of accidents and irregularities. The information describes exclusively the safety requirements for the product

(s) And is based on the present level of our knowledge. This data does not constitute a guarantee for the characteristics of the product(s) as defined by the legal warranty regulations. "(n.a. = not applicable; n.d. = not determined)"

The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.



1.	Test report holder:	Celltech Abatel AB Kista Science Tower, 17th Floor, Färöga SE-164 51 Kista (Stockholm), Sweden Tel: +46 (0) 8 445 78 70 order@celltech.se www.celltech.se	
2.	Manufacturer:	Celltech (Zhongshan) Ltd 4 <sup>th</sup> Floor, Building 3, No. 6 Jiusha Road Torch Development District 528437 Zhongshan, China (PRC) Tel: +86 760 8610 6022 sales@celltechchina.com www.celltechchina.com	
3.	UN38.3 test lab:	South China National Center of Metrology Guangdong Institute of Metrology No. 30, Songbaidong Street, Guangyua 510405 Guangzhou, China (PRC) Tel: +86 208 6594 172 scm@scm.com.cn www.scm.com.cn	
4.	Test report number:	DCW201900143	
5.	Date of test report:	28th December 2018	
6.	Description of battery:	Li-lon battery, part number 365-8107/T33.65V, 2.75Ah, 10.04Wh, 1S1P Black plastic case with gold plated tel Cell: INR18650-29E (UN38.3 approve	rminals
7.	UN38.3 tests successfully passed:	T1 - Altitude simulation       38.3.4.1         T2 - Thermal test       38.3.4.2         T3 - Vibration       38.3.4.3         T4 - Shock       38.3.4.4         T5 - External short circuit       38.3.4.5         T6 - Impact       38.3.4.6         T7 - Overcharge       38.3.4.7         T8 - Forced discharge       38.3.4.8	2 3 4 5 6
8.	Assembled battery testing requirements:	Not applicable	
9.	Edition of UN manual of Test and Criteria:	6th Revised Edition	
10.	Name and title of signatory:	SerBheusan	
		Berth Svensson Battery projects manager	