

**Lithium cell or battery test summary in accordance  
with sub-section 38.3 of UN Manual of Tests and Criteria**



**Manufacturer's identification:**

**Name:** ..... : INFICON AB  
**Address** ..... : PO Box 76, 581 02 Linköping  
 Sweden  
**Phone number** ..... : +46 13 355900  
**Email** ..... : reach.sweden@inficon.com  
**Website** ..... : www.inficon.com

**Testing laboratory:**

**Name** ..... : UL International Polska Sp. z o.o.  
**Address** ..... : ul. Równoległa 4  
 02-235 Warszawa, Poland  
**Phone number** ..... : +48223363300  
**Email** ..... : info.pl@ul.com  
**Website** ..... : https://poland.ul.com

**Test report number** ..... : 4789548919.1  
**Test report date** ..... : 2020-10-16  
**Edition of UN Manual of Tests and  
 Criteria used** ..... : ST/SG/AC.10/11/Rev.7

**Test item:**  cell /  battery /  product  
**Physical description** ..... : Small, 2S3P Li-ion secondary battery marked 581-167 with no  
 safety circuitry added. Safety is achieved by internal PTC  
 inside the cells and external circuitry on the equipment board  
 (IRwin Main PCB).  
**Chemistry and type** ..... :  lithium metal /  lithium ion  primary /  secondary  
**Mass** ..... : 0.3 kg  
**Lithium content (for lithium metal) ...** : N/A  
**Wh rating (for lithium ion)** ..... : 72.36 Wh  
**Cell configuration (X-S/Y-P)** ..... : 2-S/3-P  
**Model / type reference** ..... : 581-167  
**Ratings** ..... : 7.2 V, 10.05 Ah, 72.36 Wh

**List of tests conducted and results:** (Pass, Fail, or N/A - not applicable)  
**T.1: Altitude simulation** ..... : Pass  
**T.2: Thermal test** ..... : Pass  
**T.3: Vibration** ..... : Pass  
**T.4: Shock** ..... : Pass  
**T.5: External short circuit** ..... : Pass  
**T.6:  Impact /  Crush** ..... : N/A (only applicable to cells)  
**T.7: Overcharge** ..... : Pass  
**T.8: Forced discharge** ..... : N/A (only applicable to cells)  
**Remarks** ..... : Rechargeable battery composed of previously tested cells  
**Assembled battery testing** ..... :  UN 38.3.3 (f) /  UN 38.3.3 (g) /  N/A

**Test summary date** ..... : 2020-10-16

<b>Test summary by (name + title + signature)</b> .....	Sebastian Cichocki (Senior Project Engineer)	<i>Sebastian Cichocki</i>
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<b>Approved by (name + title + signature)</b> .....	Maciej Idzikowski (Project Engineer)	<i>Maciej Idzikowski</i>
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