

## Lithium-Ion-Battery Certification for UN 38.3

2<sup>th</sup> July 2014

Product: Lithium-Ion-Battery for Electric Bicycles

Models : BIB-XXXYYYYZZ and BIS-XXXYYYYZZ

We hereby certify that above products meet all United Nations dangerous material transport test and standard handbook 3<sup>rd</sup> part of UN38.3.

### TEST RESULT

Item No.	Test Item	Requirements	Result
T1	Altitude Simulation	No Mass Loss, No Leakage, No Venting No disassembly, No Rupture, No Fire	Pass
T2	Thermal test	No Mass Loss, No Leakage, No Venting No disassembly, No Rupture, No Fire	Pass
T3	Vibration	No Mass Loss, No Leakage, No Venting No disassembly, No Rupture, No Fire	Pass
T4	Shock	No Mass Loss, No Leakage, No Venting No disassembly, No Rupture, No Fire	Pass
T5	External Short Circuit	No disassembly, No Rupture, No Fire	Pass
T6	Impact(Cell test)	No disassembly, No Fire	Pass
T7	Overcharge	No disassembly	Pass
T8	Forced Discharge	No disassembly, No Fire	Pass

All detail test procedure on UN manual have been applied for this test.

Signature:



Dieter Adolf Kölbel