



Energizer Brands, LLC.
 533 Maryville University Drive
 St. Louis, MO 63141
 1-314-985-2000
www.Energizer.com

Lithium Battery Test Summary 18650

Product: Energizer 18650 Lithium Ion Cell

Name of cell manufacturer	Energizer Brands, LLC
Cell manufacturer contact information	533 Maryville University Drive, St. Louis, MO 63141 314-985-2000 E-mail: Enviro-Regulatory@Energizer.com www.energizer.com
Test laboratory contact information	Vkan Certification & Testing Co., LTD. No. 3, Tiantaiyi Rd, Kaitai Ave., Science City, Guangzhou P.R. China Tel. 020 32293888 E-mail: office@cvc.org.cn http://www.cvc.org.cn
Test report identification number	RZUN2018-1468
Date of test report	15 August 2018
Description of cell	Battery type: Lithium Ion Cell Weight of battery: 44g mA Hours: 2000 mAh Battery description: Lithium Ion Cell 18650 Model Number: 18650
Reference assembled battery testing requirements	N/A



Energizer



Energizer hereby certifies that the 18650 battery meets all the requirements outlined in the Manual of Tests and Criteria of the UN Recommendations on the Transport of Dangerous Goods, Part III, sub-section 38.3. The 18650 battery passes all the T-test as described in the table below.

Manual of Tests and Criteria (38.3 Lithium batteries)		Test Result
Number	Test	Pass
T1	Altitude simulation	Pass
T2	Thermal test	Pass
T3	Vibration	Pass
T4	Shock	Pass
T5	External short circuit	Pass
T6	Impact	Pass
T7	Overcharge	Not applicable
T8	Forced discharge	Pass
--	1.2 Meter Drop Test (packaging test)	
	2.5 kg maximum air shipment packaging	Pass
	Volume pack (< 30 kg)	Pass



Marcus K. Boolish
Manager of Environmental Affairs, Standards & Product Safety
15 July 2019

