



E - S T R E A M

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Fact sheet

ES18650-29MP

Lithium-Ion 18650 rechargeable battery cell

**Nominal specifications**

Note: The present specification refers exclusively to single cells.

Performance at pack level may differ.

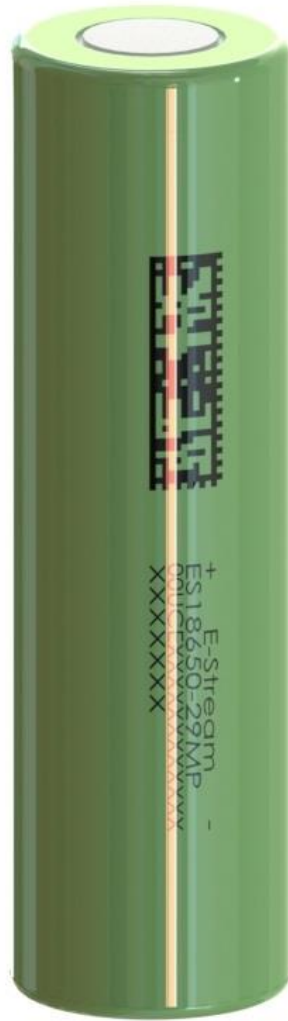
Capacity	Nominal 2900mAh	At 0.2C discharge to 2.75V and 0.2C charge to 4.2V
	Minimum 2750mAh	
Nominal voltage [V]	3.7	
Energy [Wh]	10.545	
Discharge cut-off voltage [V]	2.75	
Maximum charge voltage [V]	4.2	
Internal Impedance ACIR [mΩ]	≤ 28	
Standard charge current [A]	1.425	0.5C
Standard charge cut-off current [mA]	142.5	0.05C
Maximum continuous charge current [A]	2.9	1C
Maximum pulse charge (< 2s) current [A]*	5.7	2C
Standard discharge current [A]	2.85	1C
Maximum continuous discharge current [A]**	10	3.5C
Maximum pulse (< 1s) discharge current [A]**	15	5.26C
Weight [g]	≤ 47	
Diameter [mm]	18.25 ± 0.2	
Height [mm]	64.95 ± 0.2	
Operating temperatures charge [°C]	0 ≤ T ≤ 50	
Operating temperatures discharge [°C]	-20 ≤ T ≤ 60	
Cut-off temperature limit discharge [°C]	60	
Cycle life (80% of initial capacity)	≥ 1000 cycles (standard charge/discharge)	
Storage temperatures with maximum 70% relative humidity	≤ 30 days	-20°C – 60°C
	> 30 ≤ 90 days	-20°C – 45°C
	> 90 ≤ 365 days	-20°C – 25°C

*Not for cycle life

**With 60°C temperature cut



Appearance



Revision History

Version	Created by	Date of approval	Changes
v1.0	Nils Erdmann	11/10/2020	Initial
V1.1	Jamshid Tavana	11/24/2020	Appearance
V1.2	Jamshid Tavana	01/21/2021	2 nd review
V1.3	Jamshid Tavana	02/03/2021	Redesign

Author	Date and signature	Approval	Date and signature
Jamshid Tavana		Nils Erdmann	