



E-STREAM



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Fact sheet

ES21700-40MP

Lithium-Ion 21700 rechargeable battery cell

**Nominal specifications**

Note: The present specification refers exclusively to single cells.

Performance at pack level may differ.

Capacity	Nominal 4000mAh	At 0.2C discharge to 2.75V and 0.2C charge to 4.2V
	Minimum 3900mAh	
Nominal voltage [V]	3.65	
Energy [Wh]	14.6	
Discharge cut-off voltage [V]	2.75	
Maximum charge voltage [V]	4.2	
Internal Impedance ACIR [mΩ]	≤ 25	
Standard charge current [A]	2	0.5C
Standard charge cut-off current [mA]	200	0.05C
Maximum continuous charge current [A]*	4	1C
Maximum pulse charge current, <5s [A]*	8	2C
Standard discharge current [A]	4	1C
Maximum continuous discharge current [A]**	12	3C
Maximum pulse discharge current, <1s [A]**	20	5C
Weight [g]	≤ 70	
Diameter [mm]	21.65 ± 0.25	
Height [mm]	71.25 ± 0.25	
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 – 55°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	30/04/2021	Initial

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