

Rechargeable Lithium-Ion battery pack specification

Type: CL18650-29E4S1P-LL

	Date of issue	Date of change	Change number	Remarks
Ē	27.07.2019	-	-	-

The information contained in this specification is subject to change without notice.



1. SCOPE

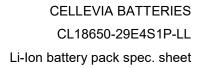
This specification describes the technical parameters and requirements of the rechargeable Lilon battery pack powered by Cellevia Batteries.

2. BATTERY PACK BASIC SPECIFICATION

NO	ITEM	SPECIFICATION	REMARK
1	Туре	CL18650-29E4S1P-LL	
2	Nominal Voltage	14.6 V	
3	Rated Capacity	2750 mAh	0.55 A to 12.0 V discharge
4	Rated Energy	40 Wh	
5	Internal Resistance	< 150 mΩ	at 1kHz, typical
6	Cell type	INR18650-29E	4 pcs
7	Cell configuration	4S1P	
8	Dimension	Drawning (see point no. 5)	
9	Weight	198 g ± 2 g	
10	Thermistor NTC		
11	Balancing function	YES	See point no. 4.2
12	Leads	Wires, 22AWG UL1007/1569	Length: 100 ± 5 mm with plug
13	Plug	Molex 43025-0200	

3. BATTERY PACK STANDARD TESTING CONDITIONS

NO	ITEM	SPECI	REMARK	
1	Charging Voltage	16.8		
2	Discharge Cut-off Voltage	12.0		
3	Charging Current	Standard	1375 mA to 16.8 V, end current 55 mA	CC/CV method
5	Charging Current	Fast	2750 mA to 16.8 V, end current 55 mA	not for cyclelife
4	Charging Time	Standard charge	3 hours	or 0.02C end curr.
		Fast charge	2.5 hours	or 0.02C end curr.
		Continous	2750 mA	Limited by cell
5	Discharging Current	Non continous	5000 mA	Limited by BSU see point no. 4.2
	Temperature Range (pack surface temp.)	Charge	0 ~ +45°C	
6		Discharge	-20 ~ +60°C	
		Storage	-10 ~ +25°C	1 year



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4. BATTERY SAFETY UNIT SPECIFICATION

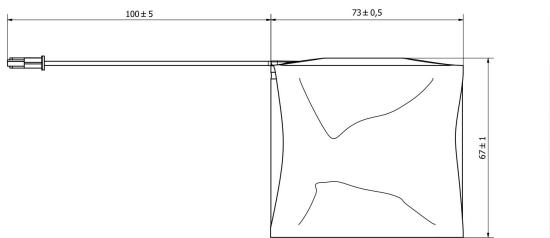
4.1. BASIC PARAMETERS

NO	ITEM		MIN	TYPICAL	MAX	UNIT	REMARKS
1	Over charge detection voltage	Cut off	4.225	4.25	4.275	V/cell	0.5 – 1.5 s
		Release	4.0	4.05	4.1	V/cell	
2	2 Over discharge detection voltage	Cut off	2.9	3.0	3.1	V/cell	0.5 – 1.5 s
2		Release	3.1	3.2	3.3	V/cell	
	Discharge Over 3 current detection current	Cut-off	8.0	9.0	10.0	Α	5 – 50 ms
3		Release				-	Cut load, Auto recovery or charging activation
	4 Short-circuit protection	Delay time	200	300	500	us	
4		Release				-	Cut load or charging activation
F	5 Temperature range	Operating	-40		85	°C	
5		Storage	-40		125	°C	
6	Resistance		20	40	60	mΩ	
7	Consumption current				50	uA	

4.2. ADDITIONAL PARAMETERS

NO	ITEM	PARAMETER	REMARK
1	Balance voltage	4.2 ± 0.025 mV	For single cell
2	Balance current	42 ± 5 mA	For single cell
3	Max continuous current	4 A	Charge/discharge
4	Current limit	5 A	t < 5 s

5. OUTLINE DRAWNING



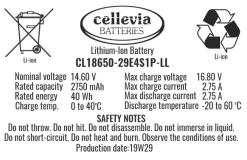


CELLEVIA BATTERIES CL18650-29E4S1P-LL Li-lon battery pack spec. sheet

6. PICTURE









7. CAUTION IN USE

To ensure proper use of the battery please read the manual carefully before using it.

- 7.1. HAZARD WARNINGS
 - Do not expose to, dispose of the battery in fire,
 - Do not put the battery in a charger or equipment with wrong terminals connected,
 - Avoid shorting the battery,
 - Avoid excessive physical shock or vibration,
 - Do not disassemble or deform the battery,
 - Do not immerse in water.
 - Do not use the battery mixed with other different make, type or model batteries
 - Keep out of the reach of children
- 7.2. CHARGE AND DISCHARGE
 - Battery must be charged in appropriate charger only,
 - Never use a modified or damaged charger,
 - Do not leave battery in charger over 24 hours
- 7.3. STORAGE
 - Store the battery in a cool, dry and well-ventilated area,
 - Store the battery in a 30% 50% SOC,
 - The batteries shall be charged every 6 months during storage
- 7.4. DISPOSAL

Regulations vary for different countries. Dispose of in accordance with local Regulation.

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