



# Rechargeable Lithium-Ion battery pack specification

---

Type:CL18650-29E2S2P-HD

Date of issue	Date of change	Change number	Remarks
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 Li-Ion battery pack powered by Cellevia Batteries.

2. BATTERY PACK BASIC SPECIFICATION

NO	ITEM	SPECIFICATION	REMARK
1	Type	CL18650-29E2S2P-HD	
2	Nominal Voltage	7.30 V	
3	Rated Capacity	5500 mAh	1.1 A to 5.6 V discharge
4	Rated Energy	40 Wh	
5	Internal Resistance	<80 mΩ	at 1kHz, typical
6	Cell type	INR18650-29E	4 pcs
7	Cell configuration	2S2P	
8	Dimension	Drawing (point no. 5)	
9	Weight	190 g ± 2 g	
10	Thermistor NTC	---	
11	Leads	Wires, 22AWG UL1007/1569	Length: 100 ± 5 mm with plug
12	Plug	Molex 43025-0200	

3. BATTERY PACK STANDARD TESTING CONDITIONS

NO	ITEM	SPECIFICATION		REMARK
1	Charging Voltage	8.4 V ± 0.1 V		
2	Discharge Cut-off Voltage	5.0 V ± 0.1 V		
3	Charging Current	Standard	2750 mA to 8.4 V, end current 110 mA	CC/CV method
		Fast	5500 mA to 8.4 V, end current 110 mA	not for cycle life
4	Charging Time	Standard charge	3 hours	or 0.02C end curr.
		Fast charge	2.5 hours	or 0.02C end curr.
5	Discharging Current	Continous	5500 mA	Limited by cell
		Non continous	10 A	Limited by BSU See point no. 4.2
6	Temperature Range (pack surface temp.)	Charge	0 ~ +45°C	
		Discharge	-20 ~ +60°C	

		Storage	-10 ~ +25°C	1 year
--	--	---------	-------------	--------

#### 4. BSU SPECIFICATION

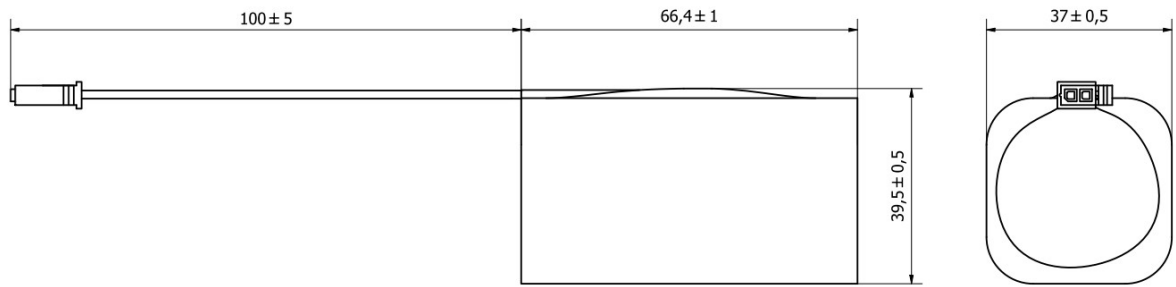
##### 4.1. BASIC PARAMETERS

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	Over discharge detection voltage	Cut off	2.45	2.5	2.55	V/cell	50 - 150ms
		Release	2.9	3.0	3.1	V/cell	
3	Discharge Over current detection current	Cut-off	15	17	18	A	5 – 20 ms
		Release	---			-	Cut load, Auto recovery
4	Short-circuit protection	Delay time	200	300	500	us	
		Release	---			-	Cut load
5	Temperature range	Operating	-40		80	°C	
		Storage	-55		125	°C	
6	Resistance		20	40	60	mΩ	
7	Consumption current				20	uA	

##### 4.2. ADDITIONAL PARAMETERS

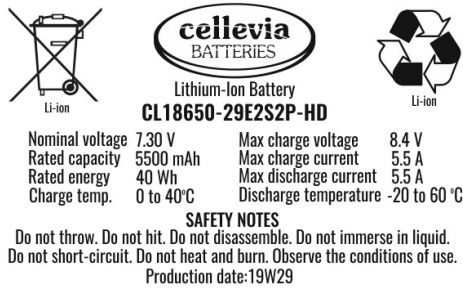
NO	ITEM	PARAMETER	REMARK
1	Max. continuous current	8 A	Charging/discharging
2	Current limit 1	10 A	t < 60 s
3	Current limit 2	12 A	t < 5 s

#### 5. OUTLINE DRAWING



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.

## X-ON Electronics

Largest Supplier of Electrical and Electronic Components

*Click to view similar products for [Battery Packs](#) category:*

*Click to view products by [Cellevia](#) manufacturer:*

Other Similar products are found below :

[2280309-1](#) [R101-B](#) [4114 210 501](#) [4120 210 501](#) [4600 726 406](#) [4610 726 406](#) [312G-U1](#) [55615703012](#) [3LR12](#) [4103 210 392](#) [4103 210 394](#)  
[4106 210 392](#) [4106 210 394](#) [4223 210 501](#) [4606 726 406](#) [4607 726 406](#) [ZA13](#) [LR03/AAA/MN2400\(K4\)](#) [LR03 MAXELL S4](#) [LR1130](#)  
[MAXELL B10](#) [LR14-MN1400-C K2](#) [LR1/910A](#) [LR41 MAXELL B10](#) [LR43](#) [LR43 MAXELL B10](#) [LR6 MAXELL S4](#) [11012](#) [E23A](#) [E90](#)  
[625302](#) [625304](#) [637871](#) [638006](#) [6LF22/9V/MN1604\(K1\)C&B](#) [6LF22/9V/MN1604 PLUS](#) [6LR61](#) [SR626SW MAXELL](#) [SR920SW](#)  
[MAXELL](#) [7K67 J](#) [55615303059](#) [GP14A S2](#) [GP15E](#) [GP1604GLF-2UE1](#) [GP 1604 ULTRA PLUS](#) [23733](#) [10 ET](#) [675 ET](#) [11A B5](#) [A544](#) [A76-](#)  
[U10](#)