



Rechargeable Lithium-Ion battery pack specification

Type: CL-18650-MH1/1S3P

Date of issue	Date of change	Change number	Remarks
07.02.2023	-	-	-

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	CL-18650-MH1/1S3P	
2	Nominal Voltage	3,63V	
3	Rated Capacity	9600mAh	1,86A to 2,5V discharge
4	Rated Energy	34,8Wh	
5	Internal Resistance	9mΩ	At 1kHz, typical
6	Cell type	INR18650 MH1	3 pcs
7	Cell configuration	1S3P	
8	Dimension	Drawing (see point no. 5)	
9	Weight	150g±2g	
10	Thermistor NTC	-	
11	Leads	Wires, LgY/H05V-K 0,5mm ²	Length: 175±5mm with plug
12	Plug	CVILUX CP-01102010	

3. BATTERY PACK STANDARD TESTING CONDITIONS

NO	ITEM	SPECIFICATION		REMARK
1	Charging Voltage	4,2V±0,05V		
2	Discharge Cut-off Voltage	2,5V		
3	Charging Current	Standard	4650mA to 4,2V end current 50mA	CC/CV method
		Fast	6000mA to 4,2V end current 50mA	not for cycle life
4	Charging Time	Standard charge	3,5 hours	or 0,015C end current
		Fast charge	2,5 hours	or 0,015C end current
5	Discharging Current	Standard	1860mA	
		Maximum	6000mA	Limited by PCM
5	Temperature Range (pack surface temp.)	Charge	0 ~ +45°C	
		Discharge	-20 ~ +60°C	
		Storage	-20 ~ +20°C	1 year

4. BATTERY SAFETY UNIT SPECIFICATION

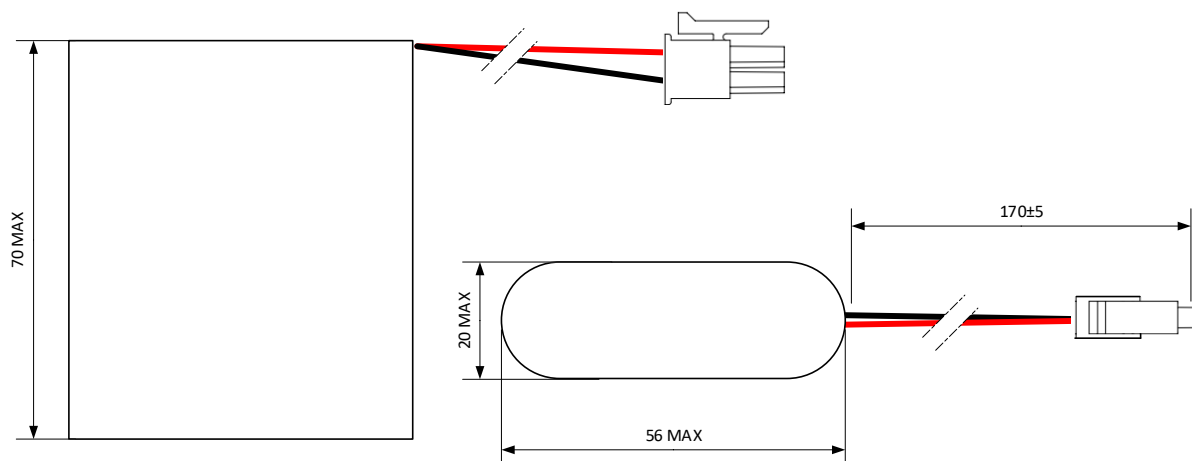
4.1. BASIC PARAMETERS

NO	ITEM		MIN	TYPICAL	MAX	UNIT	REMARKS
1	Over charge detection voltage	Cut off	4,20	4,25	4,30	V/cell	0,5 – 2s
		Release	3,95	4,05	4,15	V/cell	
2	Over discharge detection voltage	Cut off	2,45	2,50	2,55	V/cell	
		Release	2,90	3,00	3,10	V/cell	
3	Discharge over current detection current	Cut off	8,00	11,00	14,00	A	5 – 20ms
		Release	-			-	Cut load, Auto recovery
4	Short-circuit protection	Delay time	200	400	600	μs	
		Release	-			-	Cut load
5	Temperature range	Operating	-40		85	°C	
		Storage	-40		125	°C	
6	Resistance		6	9	15	mΩ	
7	Consumption current				7	μA	

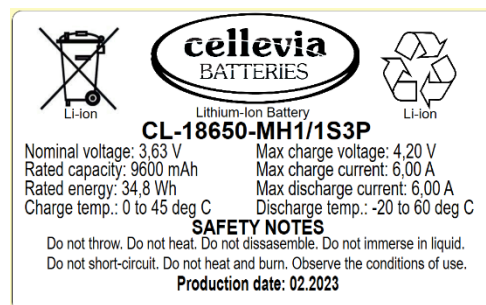
4.2. ADDITIONAL PARAMETERS

NO	ITEM	PARAMETER	REMARK
1	Max. continuous current	6A	charge
2	Max. continuous current	6A	discharge

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.