

Rechargeable Lithium-Ion battery pack specification

Type: CL-18650-MH1/1S1P

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



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	Туре	CL-18650-MH1/1S1P	
2	Nominal Voltage	3,63V	
3	Rated Capacity	3200mAh	0,62A to 2,5V discharge
4	Rated Energy	11,6Wh	
5	Internal Resistance	30m $Ω$	At 1kHz, typical
6	Cell type	INR18650 MH1	1 pcs
7	Cell configuration	1S1P	
8	Dimension	Drawing (see point no. 5)	
9	Weight	50g±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				
3	Charging Current	Standard	1550mA to 4,2V end current 50mA	CC/CV method	
		Fast	3000mA 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 Dischargin	Dischausing Comment	Standard	620mA		
	Discharging Current	Maximum	3000mA	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

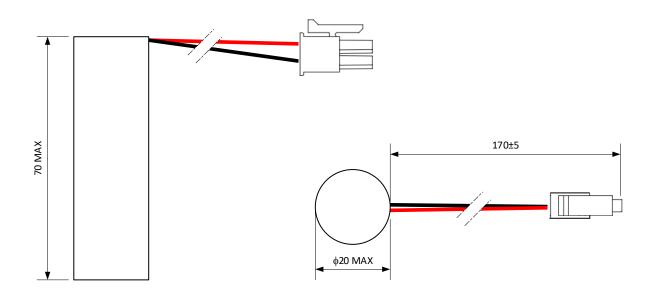
4.1. BASIC PARAMETERS

NO	ITEM		MIN	TYPICAL	MAX	UNIT	REMARKS
1 Over charge	Cut off	4,20	4,25	4,30	V/cell	0,5 – 2s	
1	detection voltage	Release	3,95	4,05	4,15	V/cell	
	Over discharge	Cut off	2,45	2,50	2,55	V/cell	
detection voltage	Release	2,90	3,00	3,10	V/cell		
Discharge over current detection current		Cut off	5,50	6,50	7,50	Α	5 – 20ms
	Release		-		-	Cut load, Auto recovery	
4 61	Chart singuit protection	Delay time	200	400	600	μs	
4	Short-circuit protection	Release		-		-	Cut load
5	Temperature range	Operating	-40		85	°C	
		Storage	-40		125	°C	
6	Resistance		20	30	40	mΩ	
7	Consumption current				7	μΑ	

4.2. ADDITIONAL PARAMETERS

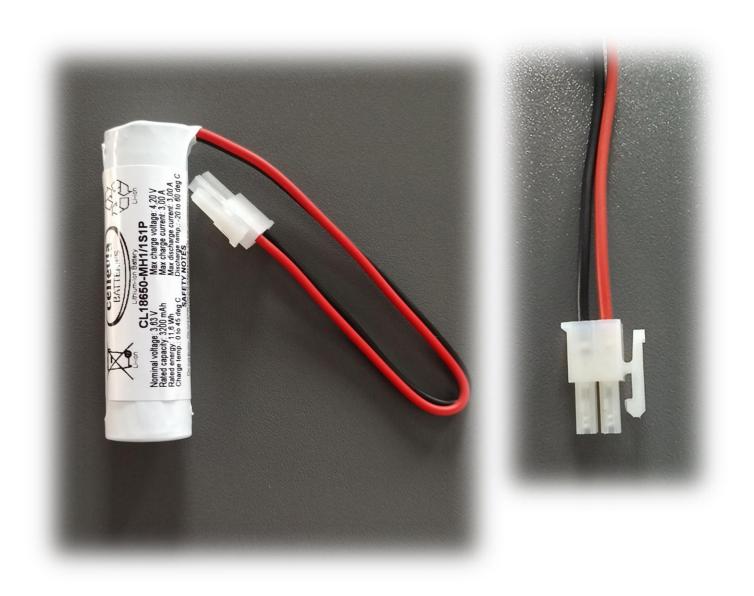
NO	ITEM	PARAMETER	REMARK	
1	Max. continuous current	3A	charge	
2	Max. continuous current	3A	discharge	

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.