

Rechargeable Lithium-Ion battery pack specification

Type: CL-18650-MH1/3S1P

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-MH1/3S1P		
2	Nominal Voltage	10,9V		
3	Rated Capacity	3200mAh	0,62A to 7,5V discharge	
4	Rated Energy	34,9Wh		
5	Internal Resistance	98m Ω	At 1kHz, typical	
6	Cell type	INR18650 MH1	3 pcs	
7	Cell configuration	3S1P		
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

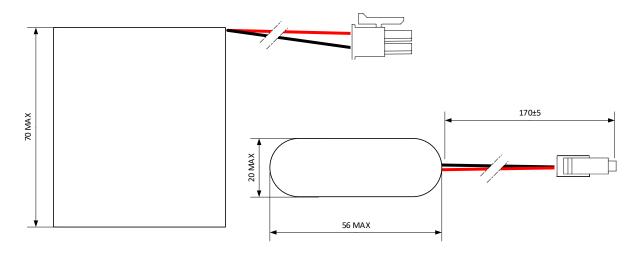
NO	ITEM	SPEC	IFICATION	REMARK	
1	Charging Voltage	12,6V			
2	Discharge Cut-off Voltage	8,1V			
3	Charging Current	Standard	1550mA to 12,6V end current 50mA	CC/CV method	
		Fast	3100mA to 12,6V end current 50mA	not for cycle life	
4	Charging Time	Standard charge	3,5 hours	or 0,015C end current	
		Fast charge	2,5 hours		
5	Discharging Current	Standard	620mA	Limited by cell	
		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

NO	ITEM		MIN	TYPICAL	MAX	UNIT	REMARKS
1 1 1	Over charge detection voltage	Cut off	4,225	4,25	4,275	V/cell	0,5 – 2s
		Release	4,10	4,15	4,20	V/cell	
	Over discharge detection voltage	Cut off	2,62	2,70	2,78	V/cell	
		Release	2,90	3,00	3,10	V/cell	
3	Discharge over current detection current	Cut off	9,00	10,00	11,00	Α	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		70	98	120	mΩ	
7	Consumption current				150	μΑ	

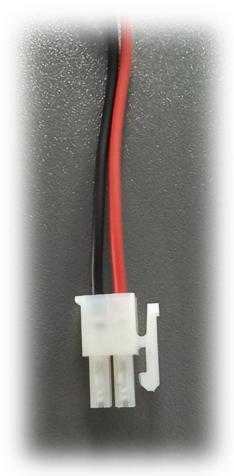
5. OUTLINE DRAWING





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.