

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 5,0V 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

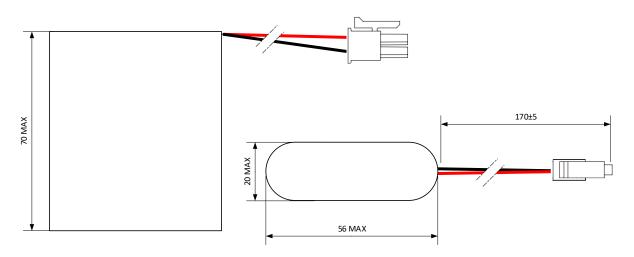
NO	ITEM	SPEC	IFICATION	REMARK	
1	Charging Voltage	12,6V			
2	Discharge Cut-off Voltage	8,1V			
3	Charging Current	Standard	1550mA to 12,6V end current 50mA	CC/CV method	
		Fast	3100mA to 12,6V end current 50mA	not for cycle life	
4	Charging Time	Standard charge	3,5 hours	or 0,015C end current	
		Fast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

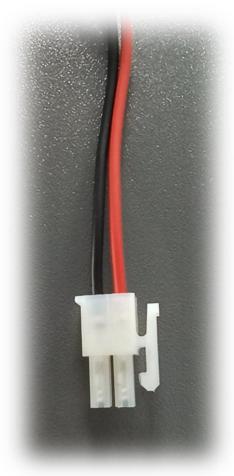
5. OUTLINE DRAWING





6. PICTURE











CL-18650-MH1/3S1P

Nominal voltage: 10.9 V Max charge voltage: 12.6 V Max charge current: 3,10 A Max discharge current: 6,00 A Max charge voltage: 6,00 A Max charge voltage: 6,00 A Max charge voltage: 6,00 A Max charge current: 6,0



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.