Li-ion Battery Pack

LLI-C11500-1S1P : 3.7V 1500mAh with Protection Circuit

Technical Parameters of Li-ion Pack:

Nominal Voltage	(Battery Pack)	3.7V	
Nominal Capacity	(Battery Pack)	1500mAh	Typical
No of Cell		1 Cell	L-18500 type
Individual Cell Capacity		3.7V 1500mAh	L-18500 type
Discharge End Voltage		2.3 V	2.3V Per Cell
Charge Upper Limit Volt		4.2V	± 60mV
Charge Current	Standard	0.2C A	
	Fast	1.0C A	
Discharge Current	Standard	0.2C A	
	Fast (Max Continuous)	1.0C A	
	Max Current (Peak)	2.0C A	
Life Cycle	Refer Technical Specs Sheet For L-18500		
Operation Temperature	Charge	0 ~ 45 °C	
	Discharge	- 20 ~ 60 °C	
Storage Temperature	With in month	- 5 ~ 35 °C	
	With six months	0 ~ 35 °C	

Protection Circuit Function:

Features	Overcharge, Over discharge, Short circuit.
Over-charge Protection Voltage	4.2 V
Over-discharge Protection Voltage	2.3 V
Short Circuit Protection	Provided Built-in Short Circuit Protection

Testing Condition:

Standard Charge	Constant current and constant voltage (CC/CV) Constant Current : 300mA Upper limit Voltage: 4.2V
Standard Discharge	Constant current discharge (CC) Constant current: 300mA End voltage: 2.3 V

Mechanical Specification:

Dimension (max) inclusive Sleeve	Height (H)	53.0mm	±1mm
	Diameter (D)	22.3mm	±1mm
Weight	Gram (g)	48.0g	±2g
Wire Diameter	22 AWG		
Wire Length	50 ~150mm as per requirement Color: Black & Red		
Connector	5264- 2P (Female connector)		

Battery Packs Image and Diagram:

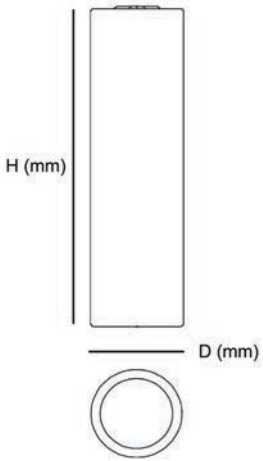
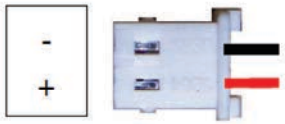


Fig a: Battery pack diagram

Connector Polarity of 5264-2P (Female with wire):



Option -1

Option -2

Handling Battery Packs: Instruction and Safety:

1. Use a proper charge system (CC / CV).
2. It is strongly recommended that the battery pack is not charged above the maximum charging ratings under any Circumstances.
3. Do not throw the battery into fire, or heat.
4. Do not throw the battery pack into water. The protection circuit may get damaged and will not operate safely while charging and discharging.
5. Do not externally short-circuit the battery pack terminals. This will cause overheating and it may also get explode.
6. Do not use the battery pack in other device. Differences in specification may damage the battery pack or device.
7. Do not deform the battery pack by applying pressure etc. It may be broken, causing leakage, internal short-circuit, Overheating, explosion etc.
8. Do not disassemble the battery pack and cell.
9. Do not cut or tear at the cable and shrink wrap of the battery pack.