

# Rechargeable Battery Packs

## FEATURES

- Lithium-ion chemical composition for stability, voltage capacity and charge retention
- Rechargeable multiple times
- Pre-wired with bare wire terminal
- Four cells, 14.8 V
- Charge capacity of 2.6 Ah
- Battery pack size of 73 x 68 x 24 mm
- Minimum operating temperature of -20°C
- Maximum operating temperature of +60°C

## SAM4ICR18650-26PCBK 14.8V Lithium-Ion 2.6Ah Rechargeable Battery Pack,



# Rechargeable Battery Packs

## Product Description

The 14.8 V lithium-ion rechargeable battery pack will help you reduce your primary (single-use) battery consumption. This rechargeable pack is suitable for domestic or business needs and measures 73 x 68 x 24 mm. These batteries are used in many appliances, such as cameras, emergency power sources and memory backup.

## General Specifications

<b>Chemistry</b>	Lithium-Ion
<b>Number Of Cells</b>	4
<b>Terminal Type</b>	Wire Lead
<b>Size</b>	73 x 68 x 24 mm
<b>Application</b>	Emergency Lighting; Commercial; Industrial

## Electrical Specifications

<b>Nominal Voltage</b>	14.8V
<b>Capacity</b>	2.6Ah
<b>Cut-Off Voltage</b>	10.8 ±0.05V
<b>Maximum Charge Voltage</b>	17.0 ±0.05V
<b>Internal Resistance (At 1000HZ)</b>	≤ 100 mΩ
<b>Standard Charge</b>	3A
<b>Fast Charge</b>	5A
<b>Maximum Discharge Current</b>	5A
<b>Continuous output discharging current</b>	3A
<b>Over-Charge detect voltage</b>	4.25±25mV
<b>Over-Charge recovery voltage</b>	4.15±50mV
<b>Over-Discharge detect voltage</b>	2.70±80mV
<b>Over-Discharge recovery voltage</b>	3.00±100mV

# Rechargeable Battery Packs

Overcurrent protection	20A±5A
Idle mode	≤50μA
Main loops electrify resistance	≤100mΩ

## Mechanical Specifications

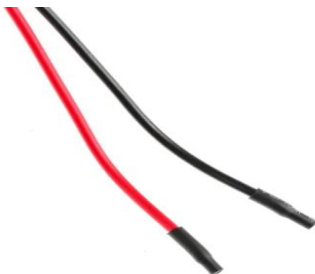
Length	73mm
Width	68mm
Height	24mm
Weight	187g
Length Of Wire	120 ±10mm

## Operation Environment Specifications

Charge Temperature Range	0°C to 52°C
Discharge Temperature Range	-20°C to 60°C
Storage Temperature Range	-20°C to 60°C

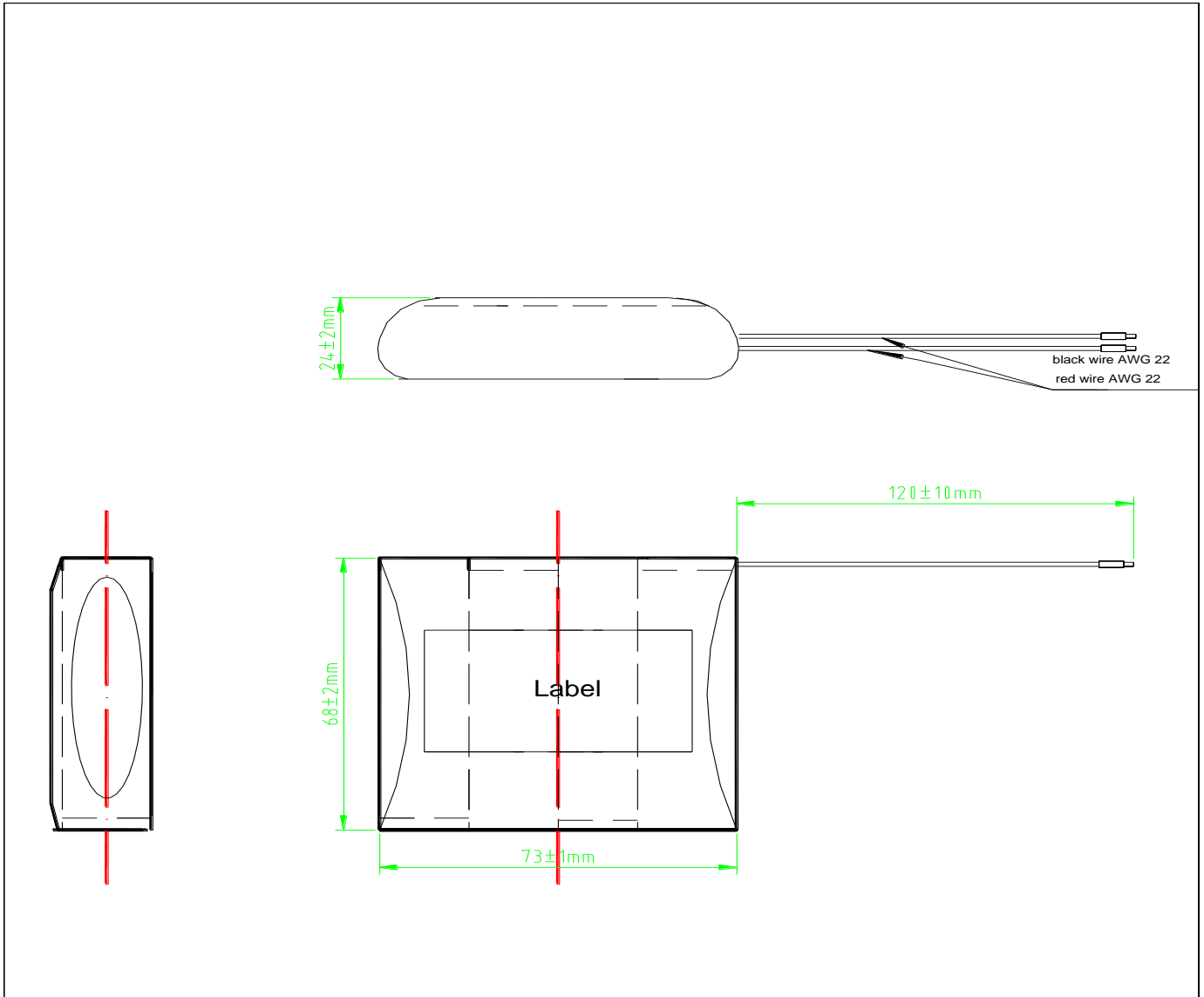
## Approvals

Compliance/Certifications	Un38.3 ROHS
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# Rechargeable Battery Packs

- 1 Product and Model
  - 1.1 Products : Lithium-ion Battery Pack
  - 1.2 Model: **SAM4ICR18650-26PCBK**
  - 1.3 Picture and output wire (In order to prevail in kind)



1.	Positive	Red one wire with 22AWG	Length: $100 \pm 10 \text{ mm}$	UL1007
2.	Negative	Black one wire with 22AWG	Length: $100 \pm 10 \text{ mm}$	

# Rechargeable Battery Packs

## 2 Battery Pack Specifications

Item		Parameters
Nominal Voltage		14.8V
Typical capacity		2.6Ah ( At 0.2C, 11V discharge)
Discharge	Maximum Discharge Current	<5A (ambient temperature 25°C) (Continuous output discharging current 3A)
	Cut-off voltage	10.8V
Charge	Voltage	16.8±0.05V
	Current	Standard Charge:3A Maximum Charge:5A
	Maximum Current	5A (ambient temperature 25°C)
	Charge mode	CC/CV, please use special lithium charger
Operation temperature / humidity range	Charge	0°C ~ +52°C / (65±20) % RH
	Discharge	-20°C ~ +60°C / (65±20) % RH
		When the environment temperature is higher than 45°C, please pay attention to ventilation and heat rejection.
Storage temperature/ humidity range	(65±20) % RH	One year: -20~20°C Three months: -20~45°C ONE months: -20~60°C
Protection function	Over charge protection, Over discharge protection	Please refer as below PCB function instruction
Shell material	PVC	
Weight	187g	
Size ( L* W*H) mm	73 x 68 x24± (1-2-1mm)	

## 3. Protection Parameters (for individual cell);(CL-S04-019-A01))

Item	Min	Typ	Max	Unit
Over-Charge voltage protection (OVP)	4.225	4.25	4.275	V
Over Charge voltage protection release (OVPR)	4.050	4.15	4.20	V
Over discharge voltage protection (UVP)	2.62	2.70	2.78	V
Over discharge voltage protection release (UVPR)	2.90	3.00	3.10	V
Input Charging Current		2	4	A
Over current discharge protection (OCDP)	9	13	17	A
Over current protection delay time (OCPDT)	5	10	15	ms
Continuous output discharging current		4	4	A
Over discharge protection release	Charge activate			

# Rechargeable Battery Packs

Over current discharge protection release	Release load			
Short circuit current protection	Enable			
Short circuit current protection deay time	200	600	800	uS
Short circuit protection release	Release load			
Idle mode	≤50			μA
Main loop electrify resistance	≤100			mΩ
Operating Temperature	-20	25	60	°C

