

SHIVON ENERGY 6S 25200 mAh LI-ION RECHARGEABLE UAV BATTERY

SEPL-6S25200UAV

1. SPECIFICATIONS

Battery Type	Li-Ion	
Battery Configuration	6S_6P	
Nominal Capacity	25200 mAh	
Nominal Voltage	21.6 V	
Energy	696 Wh	
Charge Voltage	25.2V	
Safe Discharge Voltage	18V	
Charge Current	25A	
Max Discharge Current	270A	
Internal Impedence	$\leq 25\text{m}\Omega$	
Dimensions	215 (L) x 96 (W) x 77 (T) $\pm 5\text{mm}$	
Weight	2780 \pm 50g	
Charge Temperature	Min	0°C
	Max	45°C
Discharge Temperature	Min	-40°C
	Max	60°C
Storage Temperature	Min	-20°C
	Max	35°C
	Ideal	23°C
Storage Humidity	65 \pm 20% RH	

2. PACK DRAWINGS

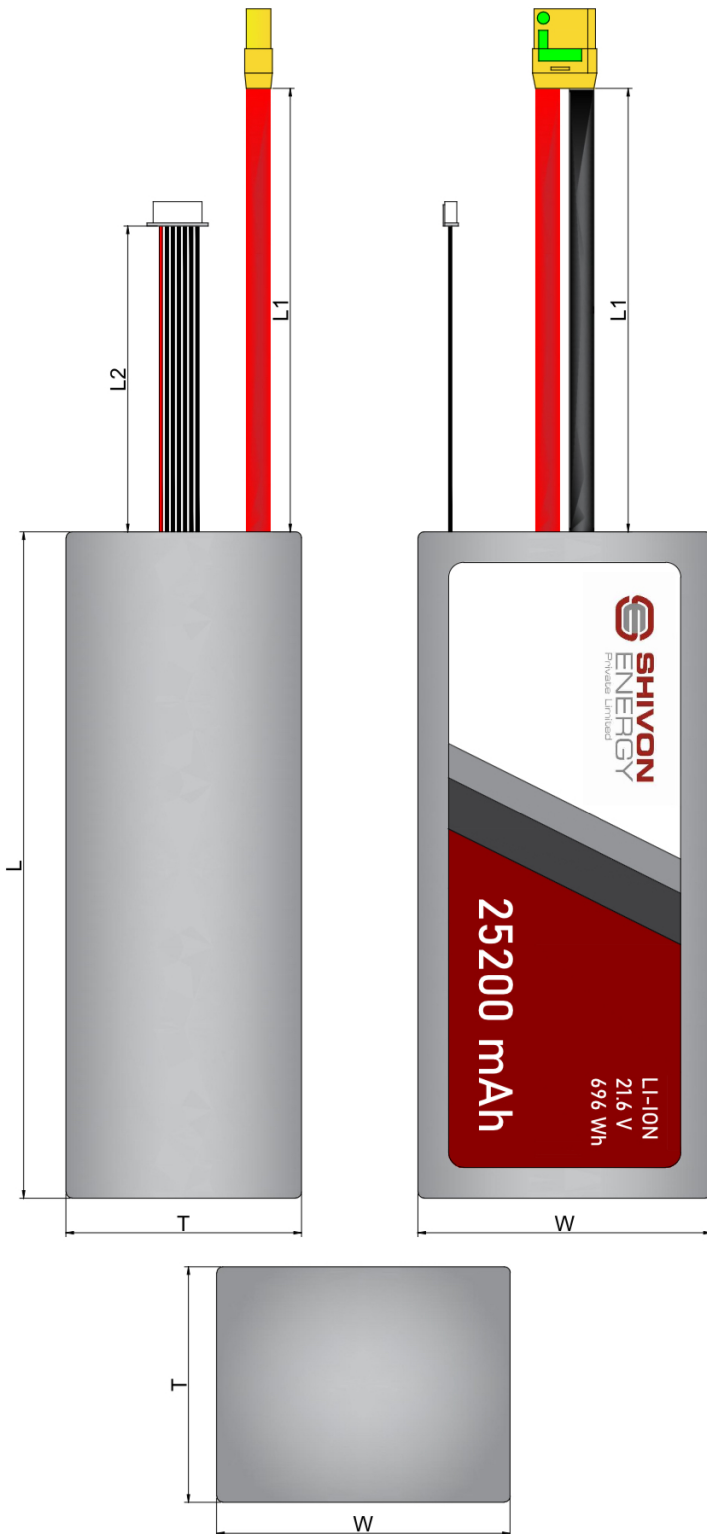


Fig 1: Battery orthographic view

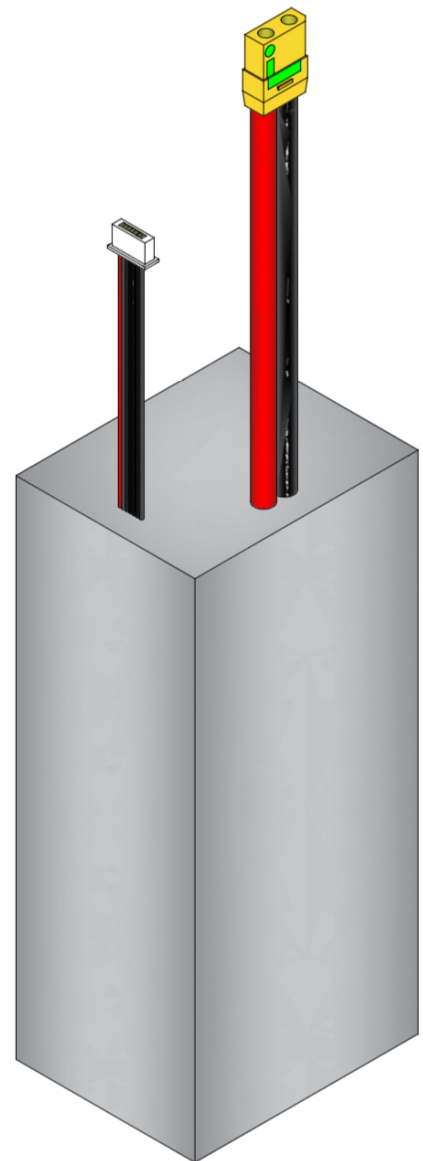


Fig 2: Battery isometric view

Thickness (T) : $77 \pm 5\text{mm}$
 Width (W) : $96 \pm 5\text{mm}$
 Length (L) : $215 \pm 5\text{mm}$
 Length (L1) : $150 \pm 10\text{mm}$
 Length (L2) : $100 \pm 10\text{mm}$

3. STORAGE

3.1 Storage Conditions

- The battery must be stored between -20°C and 35°C.
- For long term storage (over 3 months), the environmental conditions should be:
 - Temperature: $23 \pm 5^{\circ}\text{C}$
 - Humidity: $50 \pm 20\% \text{ RH}$
- The voltage range for long term storage should be 22.62V - 23.22V.
- Full charge storage is strictly prohibited.

3.2 Activation

- Charge the battery every 3 months in case of long term storage using the following method:
 - Charge with 5A up to 25.2V
 - Rest for 10 minutes
 - Discharge with 5A up to 18V
 - Rest for 10 minutes
 - Charge with 5A up to 23.22V

4. SAFETY

4.1 General Warning

▲ CAUTION

It is important to operate the device with care to avoid undesirable consequences.

- Do not throw in the garbage. Do not dispose in fire.
- Use personal protective equipment when working with batteries.

▲ CAUTION

Do not disassemble or modify the battery. If battery housing is damaged, do not touch exposed contents.

4.2 Fire Risk

- Primary suppression for a lithium battery fire is water, secondary suppression is CO2 powder.

4.3 Electric Shock Risk

▲ WARNING

For wet and electrically uninsulated working conditions, electric shock risk is high, and can cause injury and death.

4.4 Chemical Risk

▲ WARNING

Lithium batteries are a chemical risk if misoperated, mishandled or abused.

4.5 Do's

- Do protect terminals from short circuit before, during, and after installation.
- Do wear electrically insulated gloves.
- Do use electrically insulated tools.
- Do wear eye protection.
- Do wear safety toe boots/shoes.
- Do handle battery carefully.
- Do secure battery safely.
- Do always assume battery terminals are energized.

4.6 Do Not's

- Do not immerse battery in water.
- Do not operate or store battery outside of operating limits.
- Do not short circuit battery.
- Do not puncture battery.
- Do not expose battery to flames, or incinerate.
- Do not open battery case or disassemble battery.
- Do not drop or crush battery.
- Do not lift battery by the terminal cables.
- Do not expose battery to water or other fluids.
- Do not dispose of battery.
- Do not expose battery to high temperatures.