VAIMANIKA
AEROSPACE

Common safety points to be maintained.

- Enough insulation layers between wiring and the cells shall be used to maintain extra safety protection.
- Never disassemble the cells, The disassembling may generate internal short circuit in the cell, which may cause gassing, firing, or other problems
- LIPO battery should not have liquid from electrolyte flowing, but in case the electrolyte come into contact with the skin, or eyes, physicians shall flush the electrolyte immediately with fresh water and medical advice is to besought.
- Never incinerate nor dispose of the cells in fire. These may cause firing of the cells, which is very dangerous and is prohibited.
- The battery has no waterproof function, do not sprinkle liquid on the battery or put the battery into the liquid. The liquid means water, or other corrosive liquid and so on.
- The battery replacement shall be done only by either cell's supplier or device supplier and never be done by the user

Storage instruction

- The battery shall be stored within -20°C to 40℃ range environmental conditions.
- If the battery must be stored for a long time over three months the environmental condition should be temperature 23 ±5-degree humidity 65 ± 20% RH
- The voltage for long-time storage shall be 22.5- 23.4 V range. Full charged storage is prohibited.
- Store the batteries in the fireproof place when not in use, this protects the pack from damage.
- Damage to a cell in a pack will permanently damage the pack and may cause a fire.

- Please see the Charger display screen for reading to be note down

- Keep Li-ion battery packs out of children's reach.
- Do not put batteries in pockets or near conducting metal where they can short out.
- Do not store, transport, or carry the battery where it can meet sharp or metallic objects.
- Always store Li-Ion packs in safe, non-flammable containers and away from combustible materials.
- Avoid bulk-storage.
- Visually inspect battery storage areas at least weekly.

Activate method.

- Please activate the battery once every 3 months according to the following m method:
- 0.2C charged to 26.1 V, rest 5 min then 0.2C discharged to with 18V rest 5 min, 0.2C charged to 23.4 V

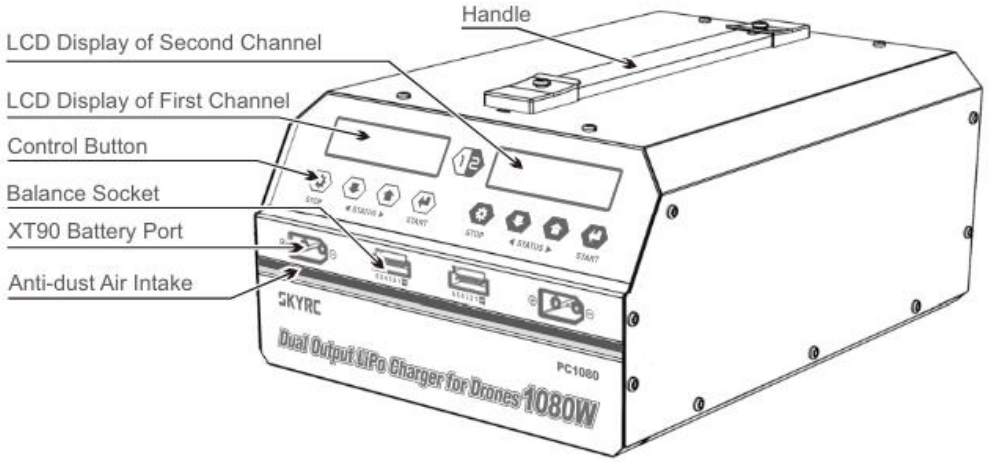
Storage mode in battery charge.

- While storing the battery in a storage room, UAS charges are used to bring the battery voltage to storage voltage level.
- In the charge storage mode option is there select that mode and bring the battery to storage mode and store in storage room with specific temperature and humidity

CHARGER DESCRIPTION

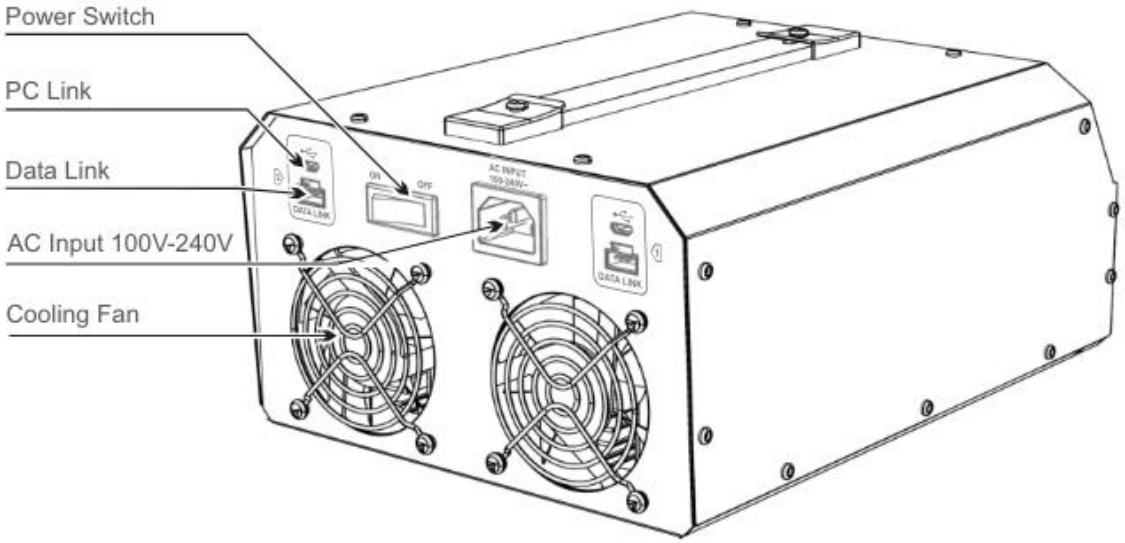
This charger is capable of balance charging 2 packs of 6 cell batteries simultaneously. It is specifically designed for big battery pack. There are three working modes, fast charge, balance charge and storage.

- Please see the Charger display screen for reading to be note down



- Please see the Charger display screen for reading to be note down

VAIMANIKA
AEROSPACE

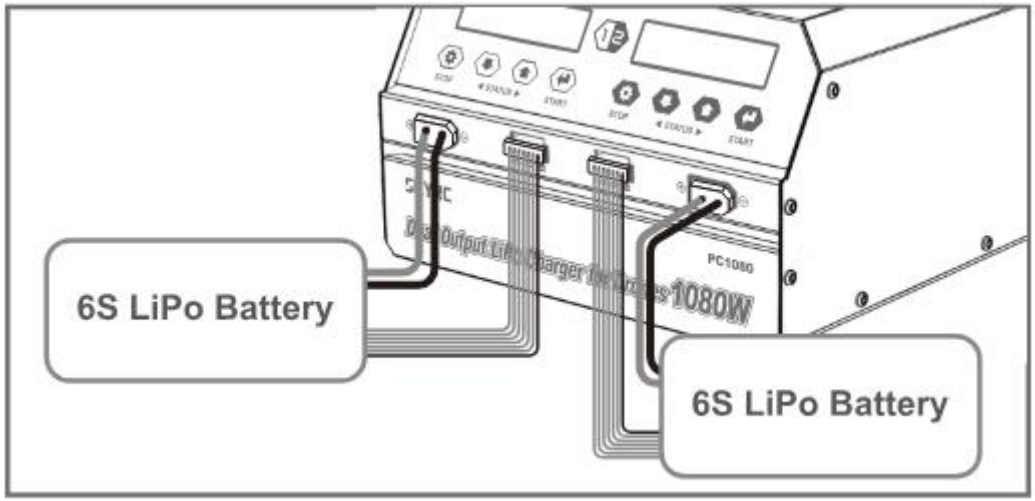


OPERATION PROCEDURE

1. Power on: connect to the power source and turn on the power switch. A beep sound will be heard, and the LCD screen will be displayed as below

- Please see the Charger display screen for reading to be note down

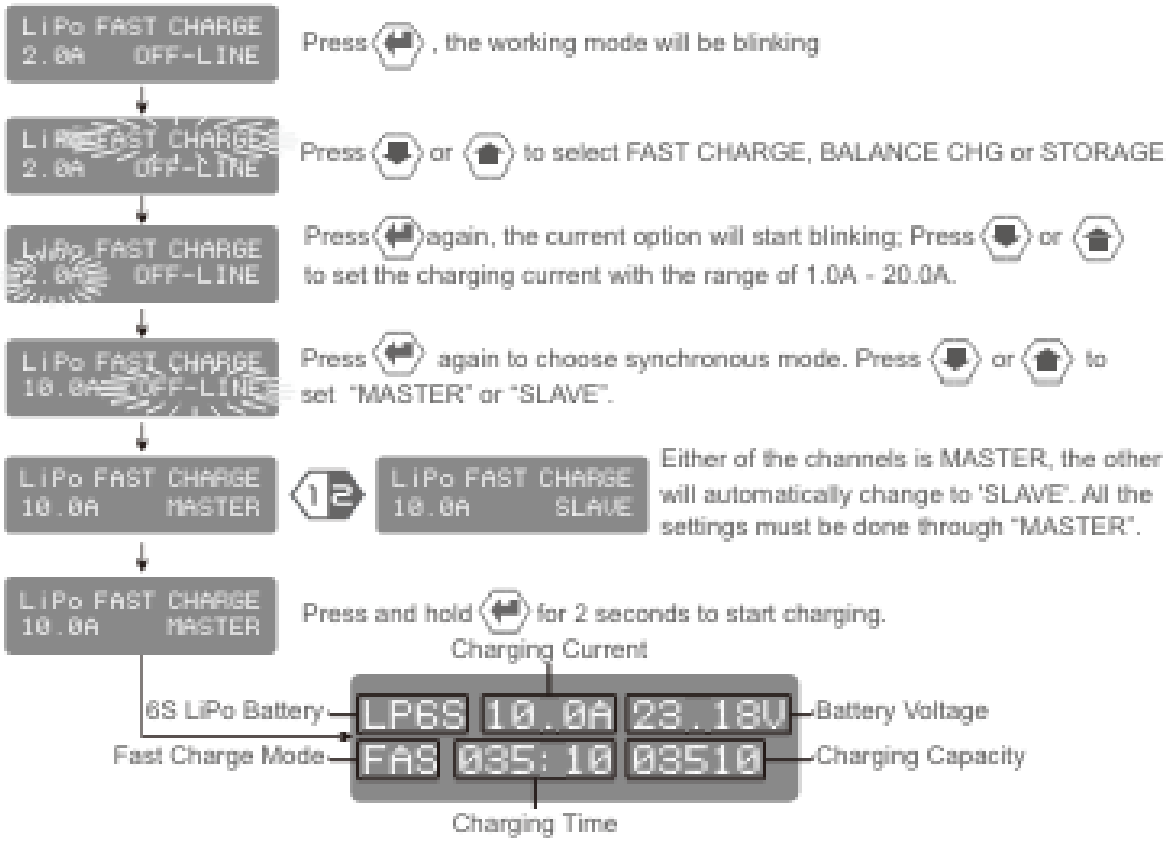
2. Battery connection: Please connect your batteries to PC1080 charger as below: (Note: Be aware that the Lithium battery to be charged should be 6 cells. Make sure the battery balance lead and charging lead are connected correspondingly to the charger.)



3. Parameter setting

- Please see the Charger display screen for reading to be note down

3) Parameters settings



4) Stop: if you'd like to terminate charging during the charging process, press . Under Master-Slave mode, any operation must be carried out on the Master channel.

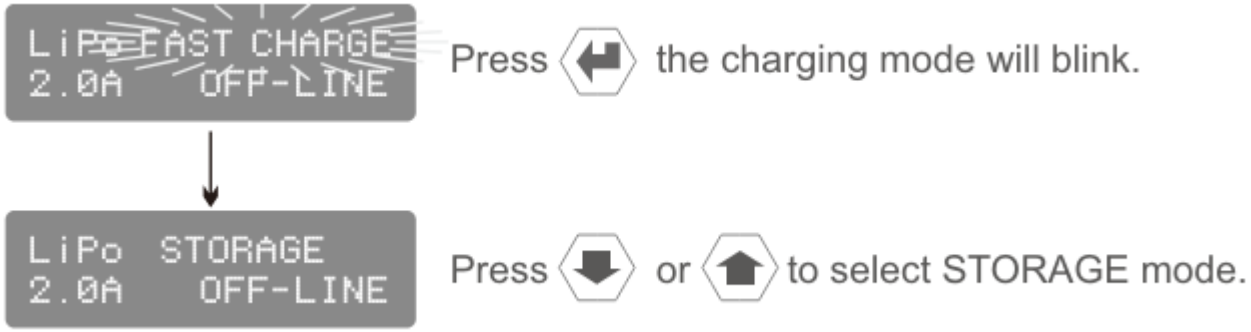
5) Finish: In charging mode, when the charging process comes to an end, the screen will be displayed as below.

- Please see the Charger display screen for reading to be note down

VAIMANIKA
AEROSPACE

STORAGE MODE

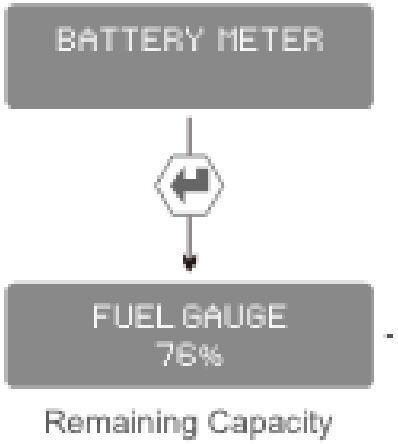
If a Lithium battery is not used for long time, it's highly recommended to charge or discharge the battery to 3.9V with STORAGE mode so as to extend the battery life. If the battery voltage is higher than 3.9V, the charger will discharge the battery; if battery voltage less than 3.9V per cell, the charger will charge the battery under STORAGE mode.



BATTERY VOLTAGE METER

Press a few times until the screen displays the battery meter. This function can detect the remaining capacity, battery voltage per cell, total voltage, highest voltage & lowest voltage.

- Please see the Charger display screen for reading to be note down



Never attempt to charge or discharge the following types of batteries

- A battery pack which consists of different types of cells (including different manufacturers)
- A battery already fully charged or just slightly discharged
- Non-rechargeable batteries (Explosion hazard)
- A battery requires a different charge technique
- A faulty or damaged battery
- A battery fitted with an integral charge circuit or a protection circuit.
- Batteries installed in other devices or connected to other parts.
- Batteries that are not expressly stated by the manufacturer to be suitable for the currents the charger delivers during the charge process.

Please bear in mind the following points before beginning charging:

- Please see the Charger display screen for reading to be note down

- Did you select the appropriate program suitable for the type of battery you are charging?
- Did you set up adequate current for charging?
- Have you checked that all connections are firm and secure?
- Make sure there are no intermittent contacts at any point in the circuit.

- Please see the Charger display screen for reading to be note down

VAIMANIKA AEROSPACE

Battery Serial No. _____

Charging Cycle (Life cycle)	Date	Charging Mode	Cell voltage before charging						Bat volt. Before charging	Cell voltage after charging						Bat Volt. After charging	Name and Signature of Technician	Remarks
	DD/mm/YY		V1	V2	V3	V4	V5	V6	(V)	V1	V2	V3	V4	V5	V6	(V)		
1																		
2																		
3																		

- Please see the Charger display screen for reading to be note down

- Please see the Charger display screen for reading to be note down

- Please see the Charger display screen for reading to be note down

VAIMANIKA
AEROSPACE

- Please see the Charger display screen for reading to be note down

- Please see the Charger display screen for reading to be note down

- Please see the Charger display screen for reading to be note down

- Please see the Charger display screen for reading to be note down

- Please see the Charger display screen for reading to be note down

- Please see the Charger display screen for reading to be note down

300																		

Storage charging record:

Battery Storage Log		
1. General Information		Date:
Item	**Details**	
Date of Log		
Log Prepared By		
Storage Location		
Battery Type		
Battery Model		
Battery Capacity (Ah/mAh)		
Manufacturer		
Date of Purchase		
Date of Storage		
Expected Storage Duration		
2. Storage Conditions		
Condition	**Standard**	**Recorded**
Temperature (°C/°F)	0°C to 35°C	
Humidity (%)	< 60%	

- Please see the Charger display screen for reading to be note down

Storage Environment	Cool, dry, well-ventilated	
Fire Safety Equipment Nearby	Yes/No	
Shelving Material	Non-conductive	
Battery Charge Level (%)	30-50% (optimal for long-term)	
Isolated from Heat Sources	Yes/No	
Separated from Combustibles	Yes/No	

3. Battery Inspection Checklist

Inspection Item	Condition	Notes
Physical Damage (e.g., dents, bulges)	Good/Needs Attention	
Leakage or Corrosion	Good/Needs Attention	
Battery Terminals Condition	Good/Needs Attention	
Signs of Overheating	Good/Needs Attention	
Battery Voltage Check	Good/Needs Attention	
Labeling and Identification	Clear/Not Clear	

4. Safety Precautions

Precaution	Status	Notes
Fire Extinguisher Present	Yes/No	
Proper Handling Instructions Posted	Yes/No	
PPE Available (e.g., gloves, goggles)	Yes/No	
Emergency Contacts Posted	Yes/No	

- Please see the Charger display screen for reading to be note down

VAIMANIKA
AEROSPACE

5. Maintenance and Monitoring Schedule		
Action	**Frequency**	**Next Due Date**
Temperature/Humidity Check	Weekly/Monthly	
Battery Voltage Check	Monthly	
Physical Inspection	Monthly	
Rotation of Stored Batteries	Quarterly/As Needed	
Authorized person		
Signature		
Date		

- Please see the Charger display screen for reading to be note down