

## 6 Configurations

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### 6.1 Preference Settings

It's advised to set display preference by these steps before operation.

**Step1:** In power-on state, press “**M**” button and hold to enter the preference setting page as shown in Figure 6-1. Users can choose display items based on personal needs and preference.



Figure 6-1

**Step2:** On the preference setting page, the blinking item is the item waiting to be set. Press the “**▲**” button to view options for the blinking item. For example, in Figure 6-1, if “**V**” is blinking on the preference setting page, it means that “**V**” has other alternate options. Just press the “**▲**” button, and “**V**” will switch to “**%**”, i.e. the displayed item is switched from voltage to battery level.

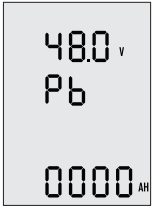


**Step3:** Press “**OK**” button to save setting for the current item and skip to the next item simultaneously.


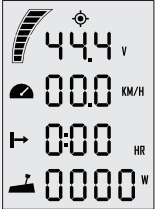
**Step4:** When all the items have been set well, long press the “**OK**” button to save all the settings and return to the main page.


### 6.2 Battery Configuration


Accurate battery configuration helps achieve precise estimation of the battery's discharging state. When using an ePropulsion NAVY Battery (standard), battery configuration is self-activated by the control system given that all the communication cables are well connected. When not using NAVY Batteries, users should manually configure the batteries via remote control at the first time use, otherwise the batteries may not work properly.

**⚠** Battery configuration should be carried out if a battery with different type/capacity/voltage is connected to the pod drive for the first time.


| Battery Configuration Process  | LCD Displaying  |
|--|---|
| <p><b>Step1:</b> First, turn on the main switch and the remote control.</p> <p>Then, press “<b>M</b>” button and hold to enter the preference setting page.</p> <p>Next, press “<b>M</b>” button and hold again to enter the battery setting page. Users can see the voltage value blinking and it’s ready for configuration.</p>  |    |
| <p><b>Step2:</b> Press “<b>OK</b>” button and skip to the next item: battery type.</p> <p>Choose the battery type according to the battery you use.</p> <p>Pressing “<b>^</b>” button to switch the battery type options between Pb, Li and LFE.</p> <p><b>Pb:</b> Lead-acid battery    <b>Li:</b> Lithium battery<br/> <b>LFE:</b> Lithium-ion ferrous phosphate battery</p>  |    |
| <p><b>Step3:</b> Press “<b>OK</b>” button to save battery type and skip to the below battery capacity setting item.</p> <p>Press “<b>^</b>” button to change the value and set the battery capacity according to the battery you use.</p> <p>Note that the unit of capacity is “Ah”, usually the capacity of battery is expressed in “Wh”, and we can get the capacity in “Ah” by following the below formula:</p> $\text{Capacity in Ah} = \frac{\text{Capacity in Wh}}{\text{Nominal voltage in V}}$ <p>E.g. if users use a 3000Wh Lithium battery with 48.1V nominal voltage, then the battery is about 62.37Ah, so you can set 62Ah as the capacity setting.</p> |  |


| Battery Configuration Process  | LCD Displaying  |
|--|---|
| <p><b>Step4:</b> Press “ <b>OK</b> ” button to save battery capacity setting, and it will return to the top battery nominal voltage setting item.</p> <p>The voltage options are varied according to the battery types. Press “ <b>^</b> ” button to view the options and select the closest nominal voltage value according to the battery you use.</p> |  |
| <p><b>Step5:</b> Press and hold “ <b>OK</b> ” button to save all the settings and return to the main page.</p>   |  |

 Lithium batteries, lead acid batteries and lithium iron phosphate batteries are recommended to use with Pod Drive 3.0. Other types of battery may fail to make the pod drive work properly.

 When you use the below batteries, please set battery type and rated voltage value based on the parameters in the following table.

| Battery type | Nominal Voltage options |       |       |       |       |       |       |       |       |  |  |
|--------------|-------------------------|-------|-------|-------|-------|-------|-------|-------|-------|--|--|
| LI           | 43.2V                   | 44.4V | 45.6V | 46.8V | 48.1V | 49.4V | 50.4V | 51.8V | 53.2V |  |  |
| Pb           | 44.0V                   | 46.0V | 48.0V | 50.0V | 52.0V | 54.0V |       |       |       |  |  |
| LFE          | 44.8V                   | 48.0V | 51.2V |       |       |       |       |       |       |  |  |

 Update the battery configuration is necessary if a different type of battery has been applied.

 When using non-ePropulsion batteries, before starting the pod, users should configure the batteries via the remote control for the first time use, otherwise the batteries may not work properly.