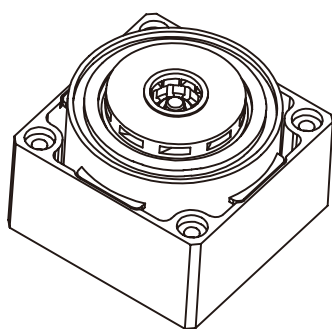


BPTA-PHCL

Bitpower Hercules Pump

Accessories

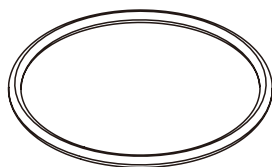
1 BPTA-PHCL 1 PCS



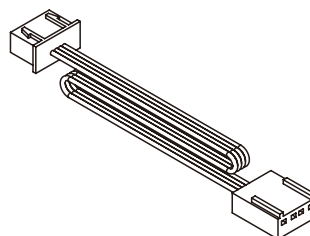
2 M4x25 Screw 4 PCS



3 O Ring 1 PCS



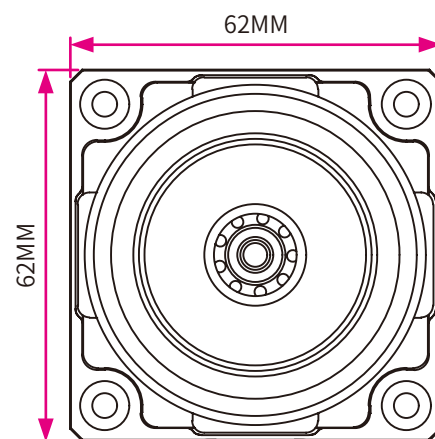
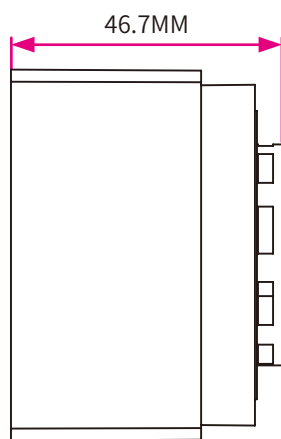
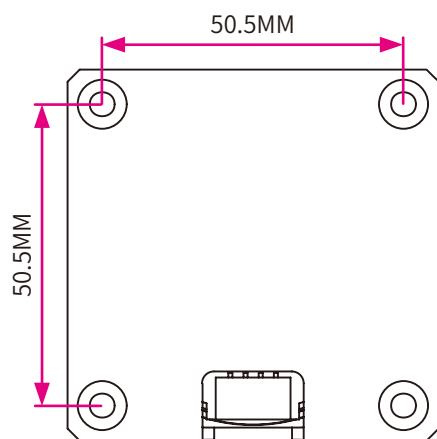
4 Charging cable 1 PCS



Notice

- Please read and carefully follow the installation guide in this manual prior to installing. The installation of this block requires some advanced knowledge about your hardware. As such, if you feel uncomfortable with the steps involved in installing this product, please reach out to our customer support for assistance.
- We recommend the use of a leak tester, such as our Bitspower Digital Leak Detector, after completing the assembly of your liquid cooling loop to make sure there are no leaks prior to filling up your loop with coolant.
- **NEVER** use the leak tester when liquid is present in the loop or when the pump is in operation.
- **DO NOT** exceed 0.5 kg/cm² or 7.0 PSI when using the leak tester. Excessive pressure exerted on your loop may result in damage to your liquid cooling components.
- Bitspower is not responsible for any potential damage from the use of a leak tester.
- **NEVER** overtighten or use excessive force during the installation of any components, unless otherwise stated in the instruction. Overtightening will result in damage to your components.
- Bitspower recommends the use of our Bitspower Pellucid Coolant for the best performance of your liquid cooling setup, as well as using Bitspower Dye for your desired color. We advise against the use of pure distilled water as it may lead to the development of scale and algae over time. Avoid using any other non-recommended coolants or liquid. The use of non-recommended coolants or liquid can result in unexpected abnormalities, such as peeling of the coating on your hardware, built-up of deposit or residue that will result in clogs, tube or O-ring degradation and deformation, or improper operation of the coolant pump. Bitspower is not responsible for any issues that may arise from the use of non-recommended coolant.
- **NEVER** mix or introduce components made from different kinds of metal to your liquid cooling loop. Never use Aluminum based liquid cooling components with Bitspower products. Doing this will result in serious damage and leaks with your liquid cooling components and will void your warranty. If you have any doubts or questions about the components you are using, please reach out to our customer support for assistance.
- Bitspower reserves the right to change the design and interpretations of our products without any prior notice. Actual design and color of product may differ from what is shown on our website.

Dimension



SPECIFICATION

Rated voltage : 12V DC

Power consumption : 15W

Maximum flow : $11 \pm 15\%$ L/min

Noise : ≤ 40 dBA

PWM : Yes

MTBF : ≥ 15000 hours

Warranty : 2 years

Dimension: 62 x 62 x 46.7mm

Maximum lift of the water pump: 5.5 ± 0.5 m

Troubleshooting

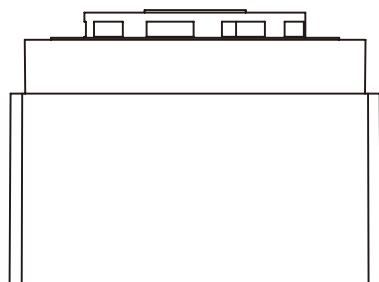
If the pump doesn't operate, please replug the pump in several times until it works normally.

If it still doesn't work, it is probably blocked by particles.

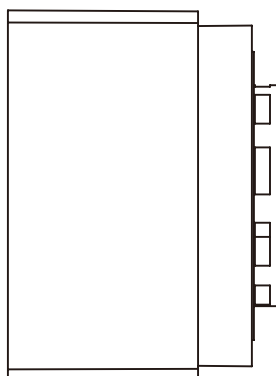
Drain the system and remove the pump housing. Open the pump by removing the four housing screws at the bottom. Remove the housing and pull out the rotor. Clean the rotor with a clean cloth and purge all dirt from the pump housing.

Caution 

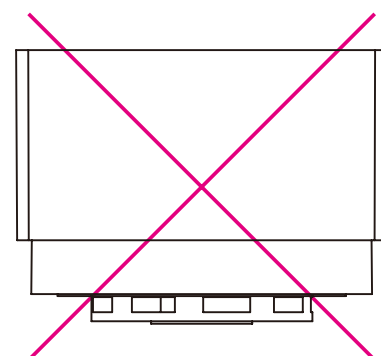
○ Vertical



○ Horizontal



Not permitted Upside down



Protection

- Idle protection

When there is no liquid in the pump, the water pump will enter an idle speed protection mode and run at full speed within 5 seconds.

After 5 seconds of idling, the water pump will temporarily stop running.

The pump will restart automatically after 5 seconds.

After repeating this cycle 10 times, the pump will completely stop running and will not start again.

At this time, the power needs to be turned off before restarting.

If normal water flows through the pump before the pump stops running completely, the pump will keep running normally.

- Over / Under Voltage Protection

Over Voltage Protection $20 \pm 1V$

When the input voltage is higher than the protection value, the pump will stop running within 2 seconds.

When the input voltage is lower than the protection value, the water pump will resume running within 2 seconds.

Under Voltage Protection $6 \pm 1V$

When the input voltage is lower than the protection value, the pump will stop running within 2 seconds.

When the input voltage is higher than the protection value, the water pump will resume running within 2 seconds.

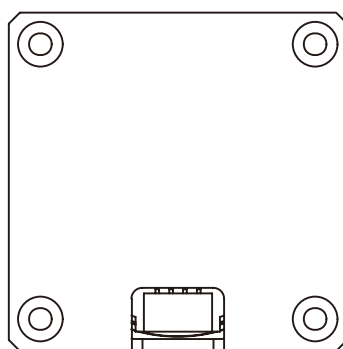
- Rotor lock protection

When the rotor of the pump is blocked, the pump will automatically stop running, and resume running after 5 seconds.

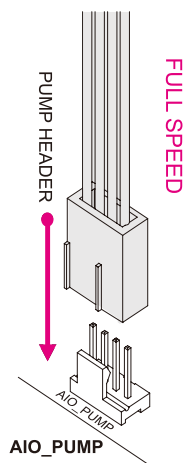
If the pump rotor continues to clog, the restart time will be extended to 15 seconds after 5 restarts.

- Reverse voltage protection

When the positive and negative poles of the water pump are accidentally reversed with 20V of power, the water pump will not run thereby preventing irreparable damage.



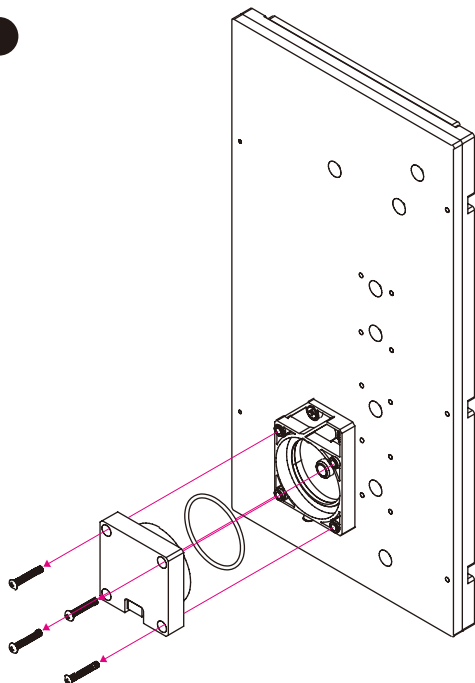
4



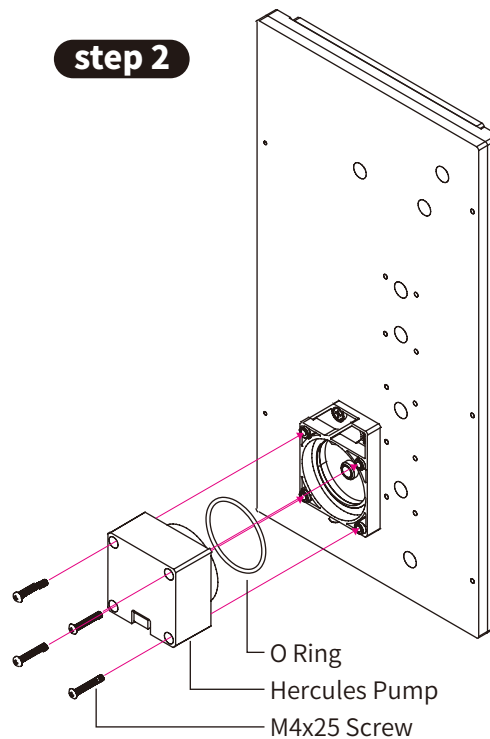
Pump Replacement Demonstration

Titan Series

step 1

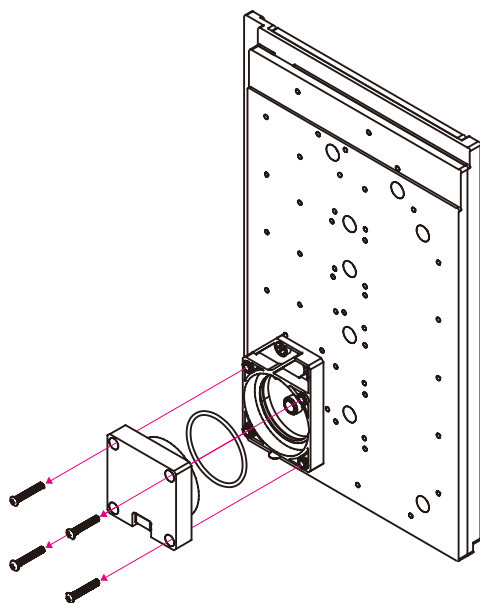


step 2



Titan Mini Series

step 1



step 2

