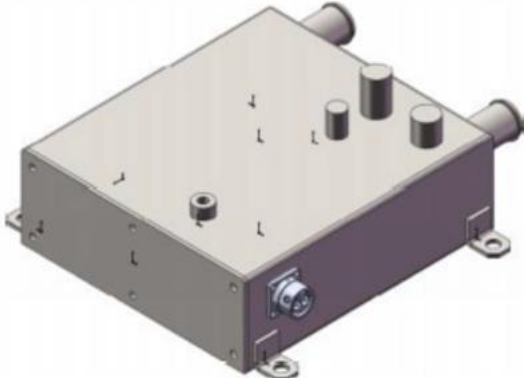




Version	Change Description	Date (dd/mm/yyyy)	Released by	Approved by
0	First edition	22/01/2022	Shell Li	Alisa Chen

Part Name: High Voltage Electric Water Heater

Model No: ATH30K-1KS24

	<p><b>Features</b></p> <ol style="list-style-type: none"> <li>1 Output Power Range: 5-30KW</li> <li>2 Control voltage: DC24V</li> <li>3 IP Rating: IP67</li> <li>4 Communication Method: CAN-Bus</li> <li>5 Software: Digital Software Design</li> <li>6. Enclosure: 304 stainless steel</li> </ol>
---	---

### Product introduction

This product can mainly heat all kinds of new energy vehicles. The heating range includes the compartment and the battery compartment. It adopts the latest patented technology and has passed the verification of relevant departments. It has high heating efficiency, good heating effect, safe use, and easy installation and maintenance.

#### I. Function introduction

1. The product uses advanced heating technology, small size, fast heating, flexible combination, installation
  - 1.1 This product adopts advanced ceramic heating tube imported from Germany, which has a fast heating speed. It only takes 10 minutes to 0-85 °C. It can be put into use immediately after the vehicle is preheated to ensure a comfortable riding environment. In addition, the product also adopts intelligent temperature control technology, which ensures heating without overheating the local temperature and affecting the comfort of passengers.
  - 1.2 When installing this product, it can be flexibly combined and installed according to the model and local climatic conditions.
- 2 Small size, big effect - this product has excellent energy saving efficiency
 

According to the verification results of relevant departments and relevant test data, this product can save energy by about 30% compared with ordinary PTC heating devices. After comprehensive use, taking a 10.5-meter vehicle as an example, the cruising range can be increased by at least 20%.
- 3 Good security
 

The product adopts imported technology, which is 100% tested and rolled off the production line during production to ensure no leakage during later use; imported high-quality materials are used, which are non-toxic, odorless and flame retardant. Even if external force damage occurs, it can also



ensure no fire hazards and personal injury.

4 Good scalability

In addition to heating in the cabin, it can also be used in other places in the car that need to be insulated, such as battery compartments, which can improve the adaptability of current new energy vehicles to the external environment and make them easier to use.

II. Product main parameters

1. Voltage Range: DC600-DC1000V
2. Input Power Range: 5-30KW
3. Heating temperature: 20°C to 85 °C
4. Control form: automatic constant temperature, can be connected to CAN
5. Control voltage: DC24V
6. Heating medium: antifreeze
7. Operating Temperature: -40°C to +120 °C
8. Circulating Flow: 500L/H
9. Max Flow: 6000L/H
10. Max Pressure: 80Kpa
11. High Voltage Relay Model: EVR40C1-A

Connector Table

Items	Description	Male Model No.	Female Model No.	Maker
1	High Voltage	ATP04-2P	ATP06-2S	Amphenol
2	Low Voltage	AMP282088-1	AMP282106-1	AMP

Product Dimensions(mm): 26 Product Dimensions(mm): 261.5 x 250 x 101.5

