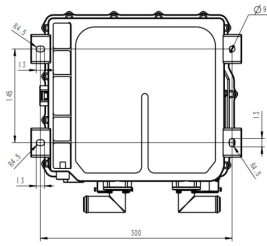


Model No. : ATD5K-330S48-W  
 Product Name : 5KW DC/DC Converter-Liquid



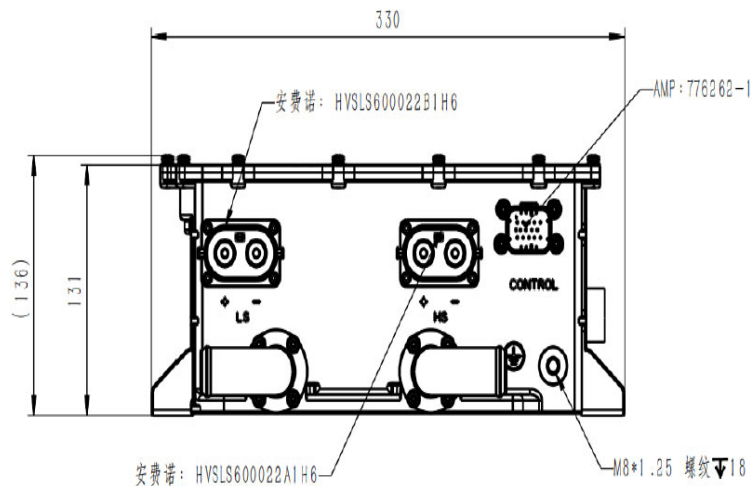
#### Features

- 1 Output Power : 5KW
- 2 Input Voltage : 250~450VDC
- 3 Output Voltage : 48VDC
- 4 Dimensions(L\*W\*D) : 330\*311\*136mm
- 5 Cooling System : Liquid, flow rate 12L/min
- 6 Protection Level : IP67
- 7 Communication Method : CAN 2.0B 250kbps-500kbps
- 8 Enclosure: Aluminum alloy made
- 9 Software: Digital software design

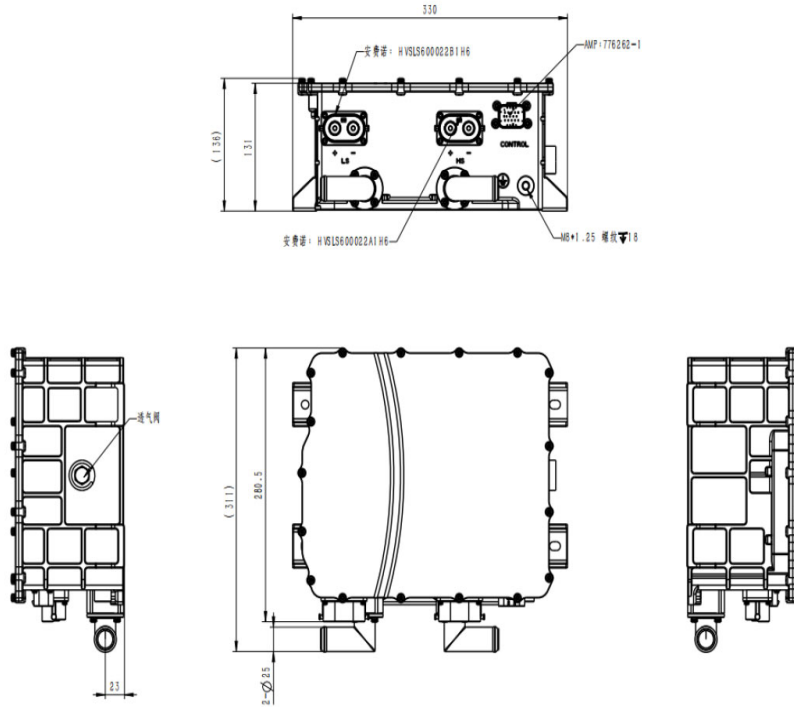
#### Specification

| Description                     | Technical specifications  | Remark                                      |
|---------------------------------|---|---|
| Operating temperature           | -40~85°C  | Coolant inlet temperature                   |
| Rated output power              | 5KW   |   |
| Input voltage range             | 250~450VDC  | Rated voltage 330VDC                        |
| Output rated voltage            | 48VDC   | adjustable (40~60 VDC)                      |
| Rated output current            | 100A  |   |
| Auxiliary power                 | 9~36VDC   | VCC   |
| Efficiency                      | ≥97%  | Rated voltage                               |
| Output voltage ripple           | ≤1%   |   |
| Output current ripple           | ≤1%   |   |
| Input voltage ripple            | ≤1%   |   |
| Input current ripple            | ≤1%   |   |
| Output voltage accuracy         | ≤±0.5% +3V  |   |
| Output current accuracy         | ≤±0.5% +2A  |   |
| Output current control accuracy | ≤±0.5% +2A  |   |
| Wake-up method                  | CAN 、hard wire  |   |
| Communication method            | CAN 2.0B 250kbps-500kbps  |   |
| Quiescent Current               | ≤0.1mA  | Consume battery current in sleep/stop state |
| Protection characteristics      | Input OVP/UV, output OVP/UV,OTP, output reverse protection, output short circuit protection, OCP, OTP |   |
| EMC characteristics             | GB/T24347-2009 、GB/T18655-2010 Level 1  |   |
| Dimensions(L*W*D)               | 330x311x136mm   |   |
| Cooling System                  | Liquid cooling , flow rate 12L/min  |   |
| Protection Level                | IP67  |   |
| Weight                          | ≤15.5KG   |   |

#### Structural parameters ( unit : mm)



**Model No. : ATD5K-330S48-W**  
**Product Name : 5KW DC/DC Converter-Liquid**



**Connector model**

| Position | Function       | Brand    | Socket model   | Plug model     |
|----------|----------------|----------|----------------|----------------|
| 1        | Signal Control | TE       | 776273-1       | 776262-1       |
| 2        | HV input       | Amphenol | HVSL600022A1H6 | HVSL600062A116 |
| 3        | LV Output      | Amphenol | HVSL600022B1H6 | HVSL600062B125 |

**Interface definition**

| Signal Control(A) |          |                   | HV input(B) |         |          | Output positive© |          |          |
|-------------------|----------|-------------------|-------------|---------|----------|------------------|----------|----------|
| PIN               | TYPE     | Function          | PIN         | TYPE    | Function | PIN              | TYPE     | Function |
| 1                 | CANB-L   | adjust CAN        | 1           | Input + | HS+      | 1                | Output + | LS+      |
| 6                 | CANB-H   |                   | 2           | Input - | HS-      | 2                | Output - | LS-      |
| 7                 | CANA-L   | VCU CAN           |             |         |          |                  |          |          |
| 13                | CANA-H   |                   |             |         |          |                  |          |          |
| 2                 | CANA-R1  |                   |             |         |          |                  |          |          |
| 10                | CANA-R2  |                   |             |         |          |                  |          |          |
| 3                 | CANA-GND |                   |             |         |          |                  |          |          |
| 4                 | VCC      | Power             |             |         |          |                  |          |          |
| 8                 | GND      |                   |             |         |          |                  |          |          |
| 9                 | KL15     | Hard wire wake up |             |         |          |                  |          |          |
| 11                | HV-LK1   | HVIL              |             |         |          |                  |          |          |
| 12                | HV-LK2   |                   |             |         |          |                  |          |          |
| 5,14              | Reserved | No wire           |             |         |          |                  |          |          |

