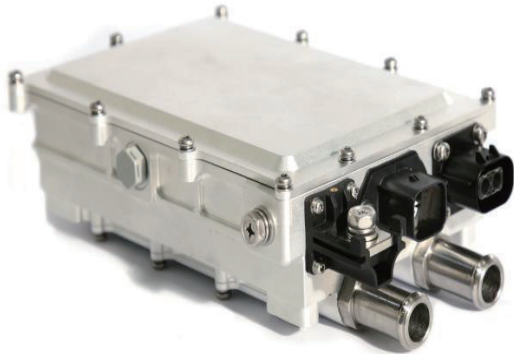




2.5KW DC/DC Converter-Liquid Model No. ATD2K5-380S14-W



Features

- 1 Output Power: 2.5KW
- 2 Input Voltage: 250~450VDC
- 3 Output Voltage: 13.8VDC
- 4 Dimensions: 298x172x86mm
- 5 Weight: ≤3.3KG
- 6 Cooling System: Liquid, flow ≥6L/min
- 7 Protection Level: IP67
- 8 Communication Method: CAN-BUS
- 9 Enclosure: Aluminum alloy
- 10 Software: Digital software design

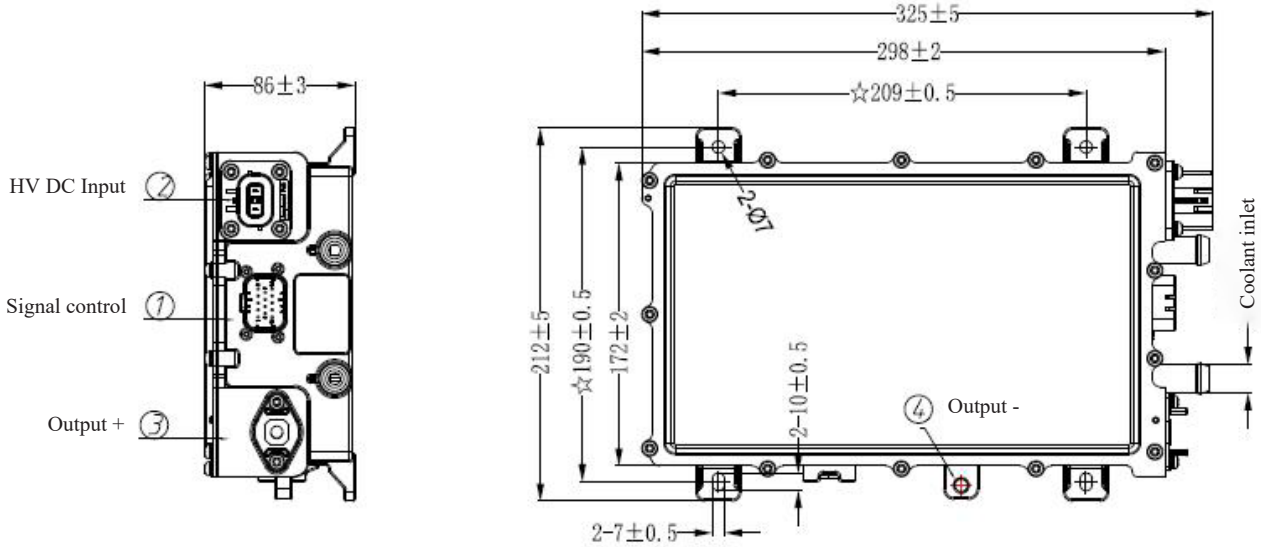
Specification

| Description | Technical Specification | Remark |
|----------------------------|---|--|
| Operating Temperature | -40~85°C | Coolant inlet temperature |
| Rated Output Power | 2.5KW | Peak power: 2.8KW |
| Input Voltage Range | 250~450VDC | |
| Rated Output Voltage | 13.8VDC | Adjustable |
| Rated Output Current | 181A | |
| Auxiliary Voltage Range | 9~18VDC | VCC |
| Efficiency | ≥95% | Rated voltage |
| Output Voltage Ripple | ≤500mV _{PK-PK} | |
| Output Voltage Accuracy | ±1% | |
| Wakeup Method | CAN, hard wire | |
| Communication Method | CAN-BUS | |
| Quiescent Current | ≤2mA | Battery current will be consumed in sleep/standby mode |
| Protection Characteristics | Input OVP/UVP, output OVP/UVP, input anti-reverse connection, output short circuit protection, OCP, OTP | |
| EMC | GB/T 18655-2010 Class 3 | |



2.5KW DC/DC Converter-Liquid Model No. ATD2K5-380S14-W

Structural Parameters (unit : mm)



Connector Model

| Position | Function | Brand | Socket Model | Plug Model |
|----------|----------------|----------|--------------------|---------------------|
| 1 | Signal control | Gvtong | GVT03-RS013-8-L02 | GE01-P008-14NNB-Y01 |
| 2 | HV DC input | Amphenol | HVSL282022FND | HVSL282062F104IND |
| 3 | Output + | Gvtong | GH17-F200-1NNB-T01 | M8 Screw |
| 4 | Output - | / | M8 Bolt | M8 Screw |

Interface Definition

| Signal Control(1) | | HV DC Input(2) | | Output Positive(3) | |
|-------------------|------------------------------------|----------------|----------|--------------------|----------|
| | | | | | |
| 1 | CAN-H | 1 | Input + | + | Output + |
| 2 | CAN-L | 2 | Input - | | |
| 3 | KEY (connect on file) | A | HVIL_IN | | |
| 4 | VCC+ (connect to 12V power supply) | B | HVIL_OUT | | |
| 5 | GND | | | | |
| 6 | HVIL_IN | | | | |
| 7 | HVIL_OUT | | | | |
| 8-14 | NC | | | | |