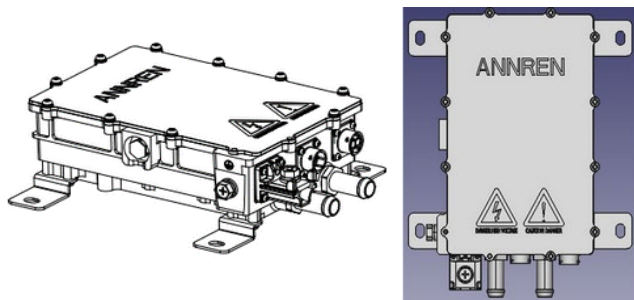


Model No. : ATD2K-540S14-W
 Product Name : 2KW DC/DC Converter Liquid



2KW DC/DC Converter Liquid Cooled System

★ Features

- 1 Output Power : 2KW
- 2 Input Voltage : 400-750VDC
- 3 Output Voltage : 13.8VDC
- 4 Dimensions : 237x161x70mm
- 5 Cooling System : Liquid (water nozzle ϕ 16)
- 6 IP Rating : IP67
- 7 Communication Method : CAN-BUS
- 8 Enclosure: Aluminum alloy made
- 9 Software: Digital software design
- # Dimensions : 237x161x70mm
- # Weight : 3KG

Applications



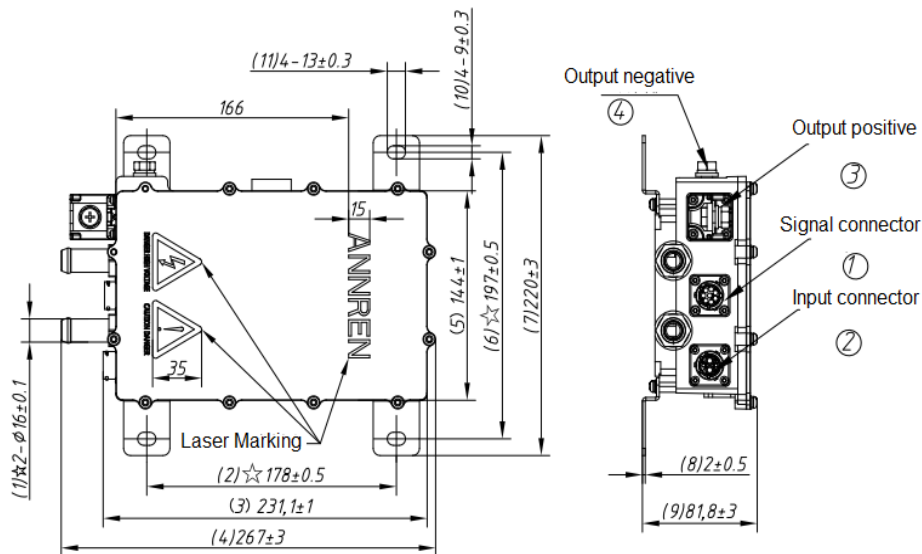
Electric Passenger Vihecles Electric Passenger Vihecles

Specification

Description	Technical specifications	Remark
Rated output power	2KW	Peak power 2.4KW
Input voltage range	400-750VDC	
Output rated voltage	13.8VDC	Adjustable
Rated output current	145A	
External auxiliary power supply	9-18VDC	VCC
Efficiency	≥95%	Rated voltage
Output voltage ripple	≤500mV _{PK-PK}	
Wake up method	CAN, hard wire, high voltage	
Communication method	CAN-BUS	
Quiescent Current	≤2mA	Consume battery current in sleep/stop state.
Protection characteristics	Input over and under voltage, output over and under voltage, input anti-reverse connection, output over current and short circuit protection, over temperature protection	
Operating temperature	-40~85°C	
Dimensions	237x161x70mm	
Cooling method	Liquid cooling, flow ≥6L/min	
IP Rating	IP67	
Weight	≤3KG	

Model No. : ATD2K-540S14-W
Product Name : 2KW DC/DC Converter Liquid

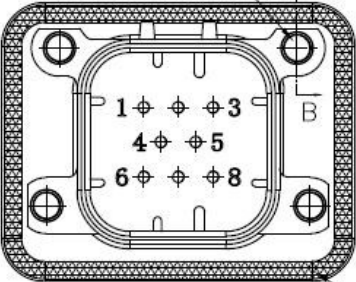
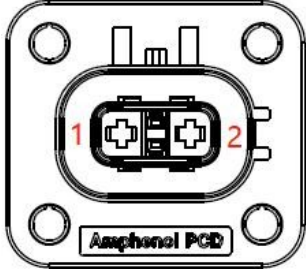
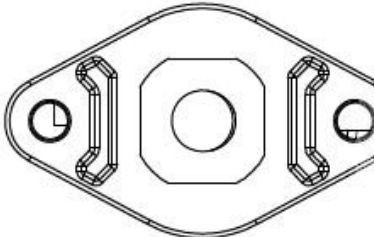
Structural parameters



Connector Table (customizable)

Item	Position	Pinout definition	Maker	Receptacle model no.	Plug model no.
1	A	Control terminal	Amphenol	GVT03-RS013-8-L02	GE01-P008-8NNB
2	B	DC high voltage terminal	Amphenol	HVSL282022FND	HVSL282062F104IND
3	C	Output positive	Connet	GH01-F200-1NNB-T21	M8 Specification copper ear
4	D	Output negative	\	M8 Bolt lock housing	M8 Specification copper ear

Interface definition (for reference)

Signal control (A)		DC input (B)		DC input (B)	
					
1	CANP	1	Input positive	+	OUTPUT+
2	CANL	2	Input negative		
3	KEY (ON)	A	HVIL_IN		
4	VCC+(12V)	B	HVIL_OUT		
5	GND				
6	HVIL_IN				
7	HVIL_OUT				
8	NC				