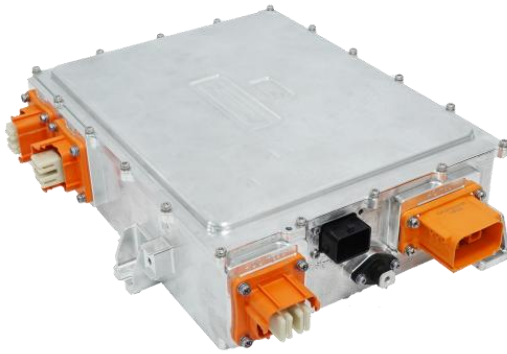




Combo 2.7KW DCDC Converter+11KW OBC+PDU with Inverter
 Model No. AT3HD3KCB11KB-D14C380-W



Features

- 1 Output Power:
 OBC: 11KW
 DC/DC: 2.7KW
- 2 Input Voltage:
 OBC: 304~456VAC(three-phase four-wire)
 DC/DC: 250~450VDC
- 3 Output Voltage:
 OBC: 250~450VDC
 DC/DC: 9~16VDC
- 4 Dimensions: 372x240x98mm
- 5 Weight: ≤15KG
- 6 Cooling System: Liquid, flow rate ≥10L/min
- 7 Protection Level: IP67
- 8 Communication Method: CAN-BUS
- 9 Enclosure: Aluminum alloy
- 10 Software: Digital software design
- 11 Inverter Function: Supported
- 12 Online Upgrade & Fault Diagnosis: Supported

Specification

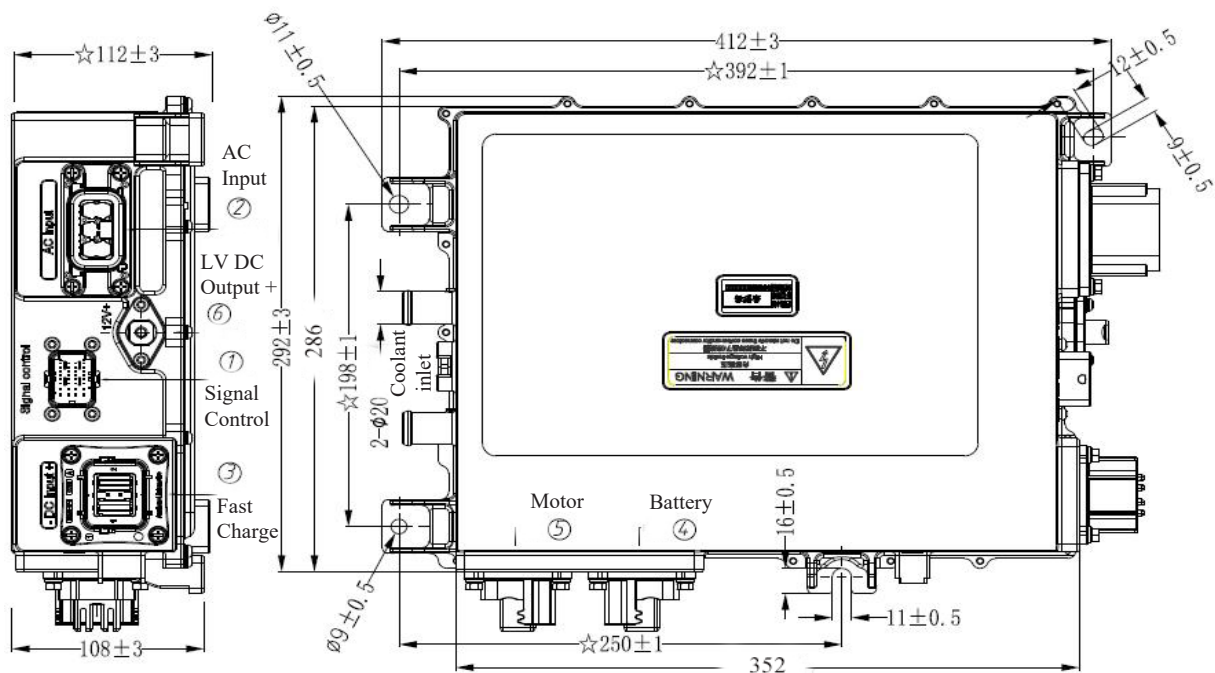
Description	Technical Specification	Remark
OBC Charging Mode		
Rated Output Power	11KW	
Input Voltage Range	304~456VAC(three-phase four-wire)	Single-phase input 176~264VAC
Input Current	32A Max	
Power Factor	≥0.99(@220VAC full load)	
Output Voltage Range	250~450VDC	Adjustable
Max Output Current	32A	
Efficiency	≥94%	Rated voltage
Voltage Accuracy	±1%	
Current Accuracy	±1%	
Inverter Mode		
Input Voltage Range	250~450VDC	
Output Voltage	220Vac(±5%)/50Hz	
Power	6KVA	
Efficiency	≥94%	
Output Harmonic Distortion (THDv)	<3%(linear load)	
Dynamic Response	60ms(linear load)	
Leakage current protection threshold	≤30mA	



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 Model No. AT3HD3KCB11KB-D14C380-W

Description	Technical Specification	Remark
DC/DC Mode		
Input Voltage Range	250~450VDC	
Input Current Range	<16A(@240VDC full load)	
Efficiency	≥94%	
Output Voltage Range	9~16VDC	
Rated Output Voltage	14VDC	
Rated Output Current	192A	
Rated Power	2.7KW	
Peak Power	3KW	
Voltage Ripple	300mV Max	
Others		
Operating Temperature	-40~85°C	Coolant inlet temperature
Low Voltage Wakeup	12VDC&200mA max (Wakeup signal)	Wakeup BMS/VCU
Wakeup Method	CAN, AC, HVDC, PP/CP, EN(hardwire)	Support reservation charging
CAN Communication	CAN-BUS	
Quiescent Current	≤1mA	Battery current will be consumed in sleep/standby mode
Protection	Input OVP, UVP, output OVP, UVP, OTP, OCP, output short circuit protection, communication fault protection	
EMC	GB/T18387-2008, EN 55022	

Structural Parameters (unit : mm)





Combo 2.7KW DCDC Converter+11KW OBC+PDU with Inverter Model No. AT3HD3KCB11KB-D14C380-W

Connector Model

Position	Function	Brand	Socket Model	Plug Model
1	Signal control	TE	2334366-2	2137299-8
2	AC Input	Amphenol	HVC5P63MV105	HVC5P63FS106
3	Fast charge	Amphenol	HVPC2P16FV141	HVPC2P16MS150S
4	Battery	Amphenol	HVPC2P16FV241	HVPC2P16MV250
5	Motor	Amphenol	HVPC2P16FV141	HVPC2P16MS150
6	LV DC Output +	Gvtong	GH04-F200-1NNB-T01	M8 Copper

Interface Definition

AC Input(2)		Moter(5)		LV DC Output(6)		Fast charge(3)		Battery(4)	
1	L1	1	Output +	+	LV +(35mm ²)	1	Output -	1	Output -
2	L2	2	Output -			2	Output +	2	Output +
3	L3	A	HVIL_IN			A	HVIL_IN	A	HVIL_IN
4	Neutral	B	HVIL_OUT			B	HVIL_OUT	B	HVIL_OUT
5	PE								
6	HVIL_IN								
7	HVIL_OUT								
Signal Control(1)									
1A	CAN1-H	2A	Wakeup_OUT	3A	NTC1+	4A	HVIL_IN		
1B	CAN1-L	2B	PP_OUT (Low resistance)	3B	NTC2+	4B	HVIL_OUT		
1C	EN_OBC	2C	EN_Inverter	3C	NTC3+	4C	CAN2-H(Reserved)		
1D	EN_DC	2D	NC	3D	NTC1&2&3 -	4D	CAN2-L(Reserved)		
1E	PP	2E	Fast charge contactor +	3E	Lock feedback1	4E	NC		
1F	CP	2F	Fast charge contactor -	3F	Lock feedback2	4F	NC		
1G	VCC+	2G	NC	3G	Lock+	4G	NC		
1H	GND	2H	NC	3H	Lock-	4H	NC		



Combo 2.7KW DCDC Converter+11KW OBC+PDU with Inverter Model No. AT3HD3KCB11KB-D14C380-W

Device Parameters

Name	Fuse Specifications	Contactors Specifications
OBC	80A	/
Fast charging contactor	/	250A

PDU Schematic Diagram

