



11KW On Board Charger Liquid

Model No. Table

Model No.	OBC		Inverter Mode	
	Output Voltage Range(Vdc)	Current In/Output Max(A)	Input Voltage Range(Vdc)	Output Voltage (Vac)
ATCB11KC-380S380W	200-470	32 / 32	250-470	220(±5%) Single-phase
ATCB11KC-380S750W	500-850	32 / 19	500-850	
Output Voltage Range	Can be configured according to the customer's actual battery requirements.			

Features

- 1 Rated Output Power: 11KW
- 2 Input Voltage Range: 3 phase 304~456VAC
- 3 Dimensions(mm): 369x238x98
- 4 Weight: ≤12KG
- 5 Cooling System: Liquid, flow rate ≥10L/min
- 6 Protection Level: IP67
- 7 Communication Method: CAN-BUS
- 8 Enclosure: Aluminum alloy
- 9 Software: Digital software design
- 10 Online Upgrade & Fault Diagnosis: Supported
- 11 Compatible with 1 phase and 3 phase charging piles



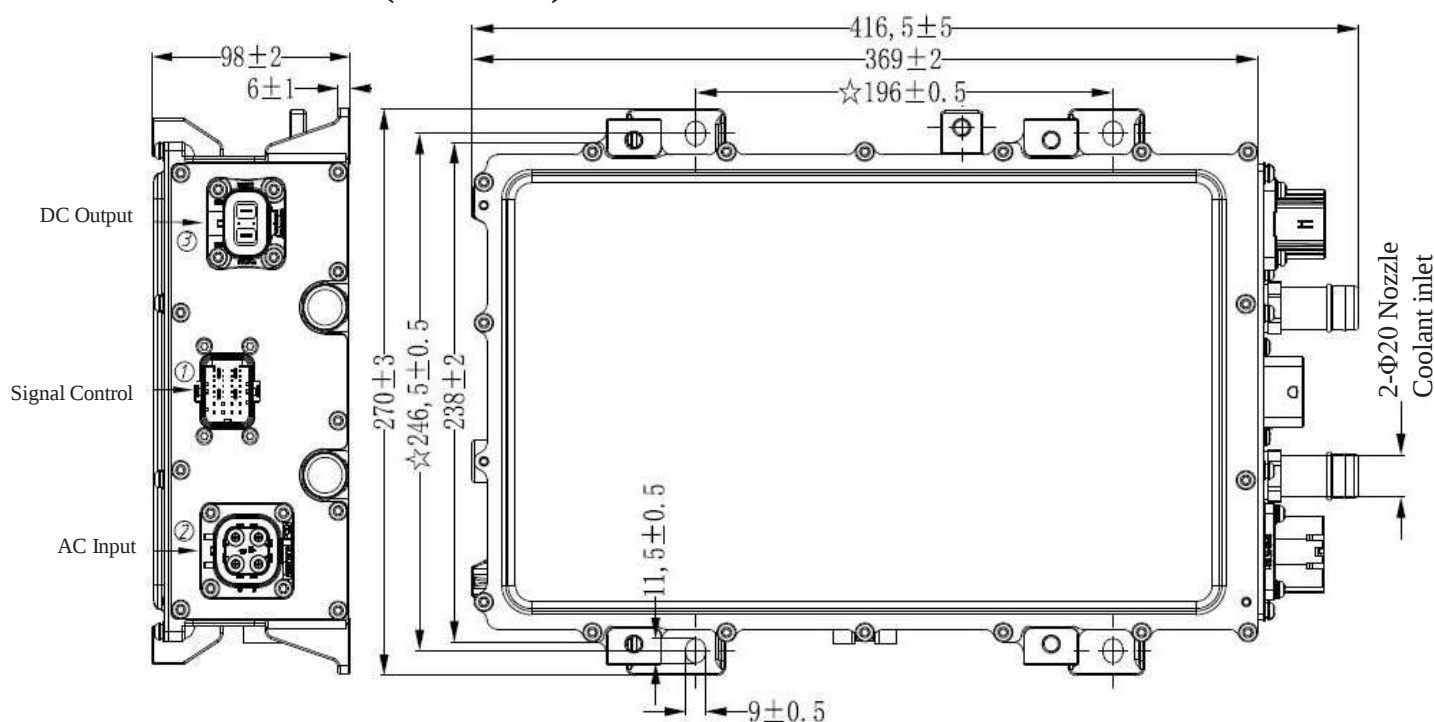
Specification

Description	Technical Specification	Remark
OBC		
Input Voltage Range	3 phase 304~456VAC (wire-wire voltage, 3 phase 4 wire)	1 phase input: 175~264VAC
Max Output Current	32A	1 phase input: 20A
Power Factor(PF)	≥ 0.99 at 220 VAC under full-load conditions	
Auxiliary Voltage Range	9~32VDC	VCC
Efficiency	≥94%	Rated voltage
Voltage Accuracy	±1%	
Current Accuracy	±3%	
Inverter Mode		
Rated Power	6 kVA, single-phase	
Efficiency	≥ 94%	
Total Harmonic Distortion of Output Voltage (THDv)	< 3% under linear load	
Dynamic Response Time	60 ms under linear load	



Others		
Operating Temperature	-40~85°C	Coolant inlet temperature
Low Voltage Wakeup	12Vdc/200mA max (wakeup signal)	Wakeup BMS/VCU, voltage follows the VCC
Wakeup Method	CAN, PP/CP, EN(hardwire)	Support reservation charging
Communication Method	CAN-FD	
Quiescent Current	≤1mA	Battery current will be consumed in sleep/standby mode
Protection Characteristics	Input OVP, UVP, output OVP, UVP, OTP, OCP, output short circuit protection, communication fault protection Input overvoltage/undervoltage protection, output overvoltage/undervoltage protection, overtemperature protection, overcurrent protection, output short-circuit protection, and communication fault protection.	
EMC	GB/T 18387-2008, EN 55022	

Structural Parameters (unit : mm)

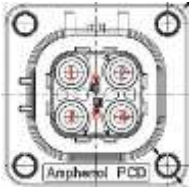
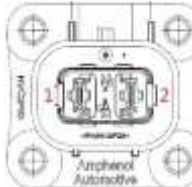
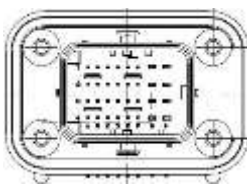




Connector Model

Position	Function	Brand	Socket Model	Plug Model
1	Signal control	TE	2334366-2	2137299-8
2	AC Input	Amphenol	HVSL364024A	HVSL364064A106I
3	DC Output	Amphenol	HVC2P63MV406	HVC2P63FS406

Interface Definition

AC Input(2)		DC Output(3)		Signal Control(1)							
											
1	L1, single phase	1	Output +	1A	CAN 1-H	2A	Wakeup	3A	NTC 1 +	4A	HVIL_IN
2	L2	2	Output -	1B	CAN 1-L	2B	NC	3B	NTC 2 +	4B	HVIL_OUT
3	L3	A	HVIL_IN	1C	EN_OBC	2C	EN_Inversion	3C	NTC 3 +	4C	NC
4	N	B	HVIL_OUT	1D	NC	2D	NC	3D	NTC - 1 & 2 & 3	4D	NC
A	HVIL_IN			1E	PP	2E	NC	3E	Lock feedback 1	4E	NC
B	HVIL_OUT			1F	CP	2F	NC	3F	Lock feedback 2	4F	NC
	Ground to chassis			1G	VCC +	2G	NC	3G	Lock +	4G	NC
				1H	GND	2H	NC	3H	Lock -	4H	NC