



Model No. : ATCB22KC-380S380-W

Product Name : 22KW ON BOARD CHARGER LIQUID WITH INVERTER



Features

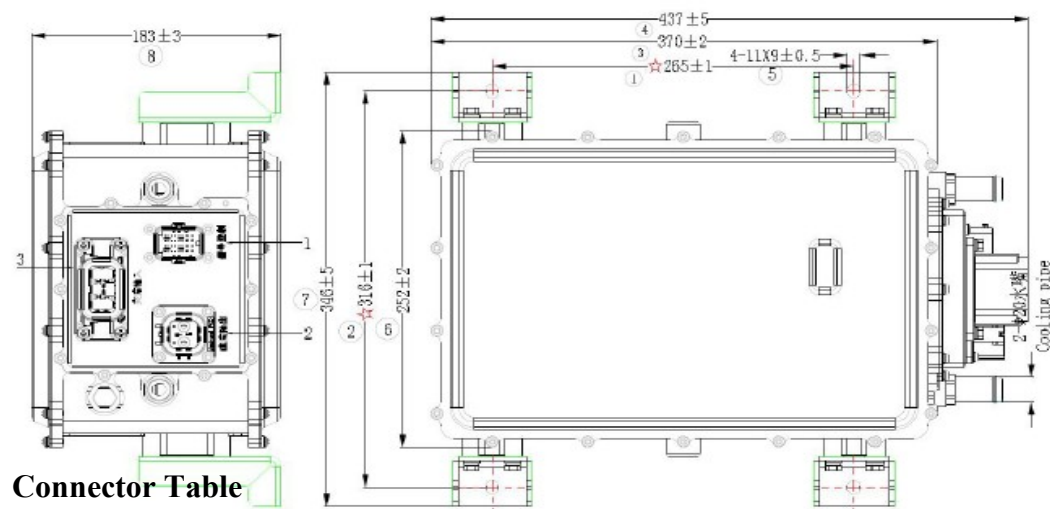
- 1 Output Power : 22KW
- 2 Input Voltage :
3-phase 304~456VAC (3 phase ,4 wires) 1-phase 85~265VAC
- 3 Output Voltage : 200~500VDC
- 4 Dimensions : 370x252x183mm
- 5 Cooling System : Liquid, flow rate $\geq$ 12L/min
- 6 IP Rating : IP67&6K9K
- 7 Communication : CAN-BUS
- 8 Enclosure: Aluminum alloy made
- 9 Software: Digital software design

Specification

Description	Technical specifications	Remark
OBC Charging mode		
Rated output power	22KW	
Input voltage range	3-phase 304~456VAC (L-L,3 phase ,4 wires)	1-phase input: 85~265VAC
Output current	32A Max	
Power factor	≥ 0.99 (220Vac, full load)	
Output voltage range	200-500VDC	
Maximum output current	64A	
Efficiency	$\geq 94\%$	Rated voltage and Specific Load
Voltage accuracy	$\pm 1\%$	
Current accuracy	$\pm 3\%$	
Inverter mode		
Input voltage range	250-500VDC	1-phase input:
Output voltage	220VAC($\pm 5\%$)	
Power	6kVA (1-phase)	
Efficiency	$\geq 94\%$	Rated voltage and specific load
Output Harmonic Distortion (THDv)	<3% (Resistance load)	
Dynamic Response	60ms (Resistance load)	
Others		
Operating temperature	-40~85°C	Coolant inlet temperature
Low-voltage power supply	9-32V	
Low voltage wake-up	24Vdc&200mAmax (WAKE_UP signal)	Wake up BMS/VCUU, VCC
Wake-up mode	PP/CP, EN_OBC(hardwire enable)	Support reservation charging
Communication mode	CAN-BUS	Sleep mode/ consume
Static Current	$\leq 1\text{mA}$	batter current at stop status
Protection	Input OVP, UVP, output OVP, UVP, OTP, OCP, output short circuit protection, communication fault protection	
EMC characteristics	GB/T 18387-2008, EN 55022	
Dimensions	370x252x183mm	
IP Rating	IP67&6K9K	
Cooling System	Liquid, flow rate $\geq 12\text{L/min}$	
Weight	$\leq 23\text{KG}$	



Structural parameters



Connector Table

Item	Position	Receptacle model no.	Pinout definition	Maker	Plug model no.
1	1	2334366-2	Signal control	TE	2137299-8
2	2	HVSL362022A	DC output	Amphenol	HVSL362062A16I
3	3	HVC5P63MV105	AC input	Amphenol	HVC5P63FS106

Interface definition

AC input (3)		DC output (2)		Signal control (1)							
1	Line 1/1-phase	1	Output +	1A	CAN1-H	2A	WAKE_UP	3A	(NTC1+)	4A	HVIL_IN
2	Line 2	2	Output -	1B	CAN1-L	2B	PP_OUT	3B	(NTC2+)	4B	HVIL_OUT
3	Line 3	A	HVIL_IN	1C	EN_OB_C	2C	EN_inverter	3C	(NTC3+)	4C	CAN2-H
4	Neutral	B	HVIL_OUT	1D	NC	2D	NC	3D	(NTC-)	4D	CAN2-L
5	PE			1E	PP	2E	NC	3E	(LOCK_FB1)	4E	(EN_L)
6	HVIL_IN			1F	CP	2F	NC	3F	(LOCK_FB2)	4F	NC



7	HVIL_O UT			1G	VCC+	2G	N C	3G	(LOCK+)	4 G	NC
	Ground wire to casing			1H	GND	2H	N C	3H	(LOCK-)	4 H	NC