



6.6KW OBC - Bidirectional Liquid cooling Model No. ATCB6K6B-220S380-W



Features

- 1 Output Power: 6.6KW
- 2 Input Voltage: 85~265VAC
- 3 Output Voltage: 250~450VDC
- 4 Dimensions: 326x211x83mm
- 5 Weight: ≤9KG
- 6 Cooling System: Liquid, flow rate ≥8L/min
- 7 Protection Level: IP67
- 8 Communication Method: CAN-BUS
- 9 Enclosure: Aluminum alloy
- 10 Software: Digital software design
- 11 Online Upgrade & Fault Diagnosis: Supported
- 12 Inverter Function: Supported

Specification

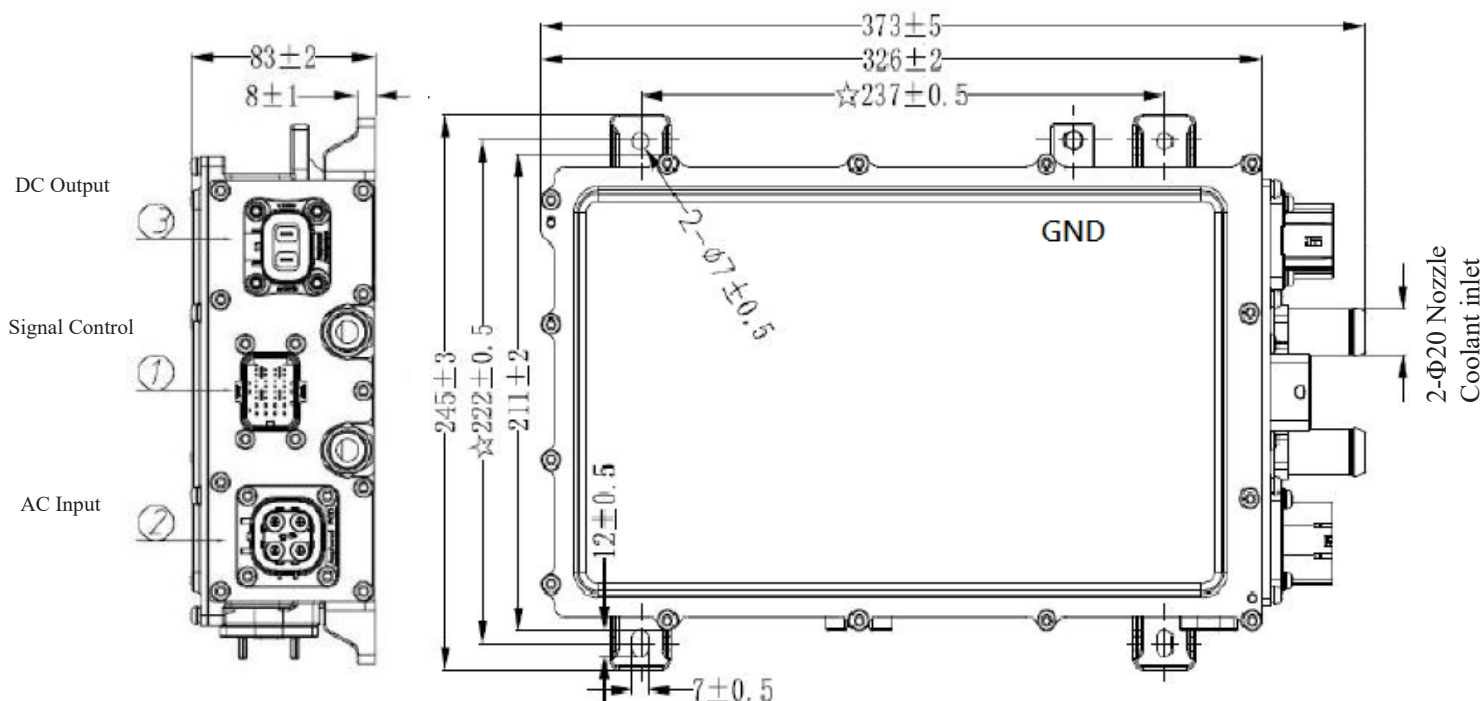
Description	Technical Specification	Remark
OBC Charging Mode		
Rated Output Power	6.6KW	
Input Voltage Range	85~265VAC	
Input Current	32A Max	
Power Factor	≥0.99(@220Vac full load)	
Output Voltage Range	250~450VDC	Adjustable
Max Output Current	20A	
Efficiency	≥94%	Rated voltage & Specific Load
Voltage 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%(Resistance load)	
Dynamic Response	60ms(Resistance load)	
Leakage Current Protection Threshold	≤30mA	



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Description	Technical Specification	Remark
Others		
Operating Temperature	-40~85°C	Coolant inlet temperature
Low Voltage Wakeup	LVDC&200mA max (Wakeup signal)	Wakeup BMS/VCU Voltage follow VCC+
Wakeup Method	CAN, AC, PP/CP, EN(Hardwire)	Support reservation charging
CAN Communication	CAN-BUS	
Quiescent Current	≤1mA	Battery current 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)

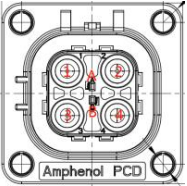
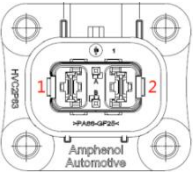
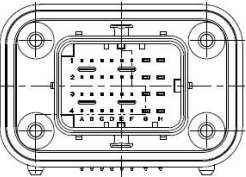




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Connector Model

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

AC Input(2)		DC Output(3)		Signal Control(1)							
											
1	L	1	Output +	1A	CAN 1-H	2A	Wakeup	3A	NTC 1 +	4A	HVIL_IN
2	NC	2	Output -	1B	CAN 1-L	2B	PP_OUT	3B	NTC 2 +	4B	HVIL_OUT
3	NC	A	(HVIL_IN)	1C	EN_OBC	2C	EN_Inverter	3C	NC	4C	NC
4	N	B	(HVIL_OUT)	1D	NC	2D	NC	3D	NTC 1 & 2 -	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