



20KW OBC-Liquid Model No. ATC20K-220S380-W



Features

- 1 Output Power: 20KW
- 2 Input Voltage: 85~265VAC
- 3 Output Voltage: 200~450VDC
- 4 Dimensions: 460x401x164mm
- 5 Weight: ≤30KG
- 6 Cooling System: Liquid, flow rate ≥12L/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

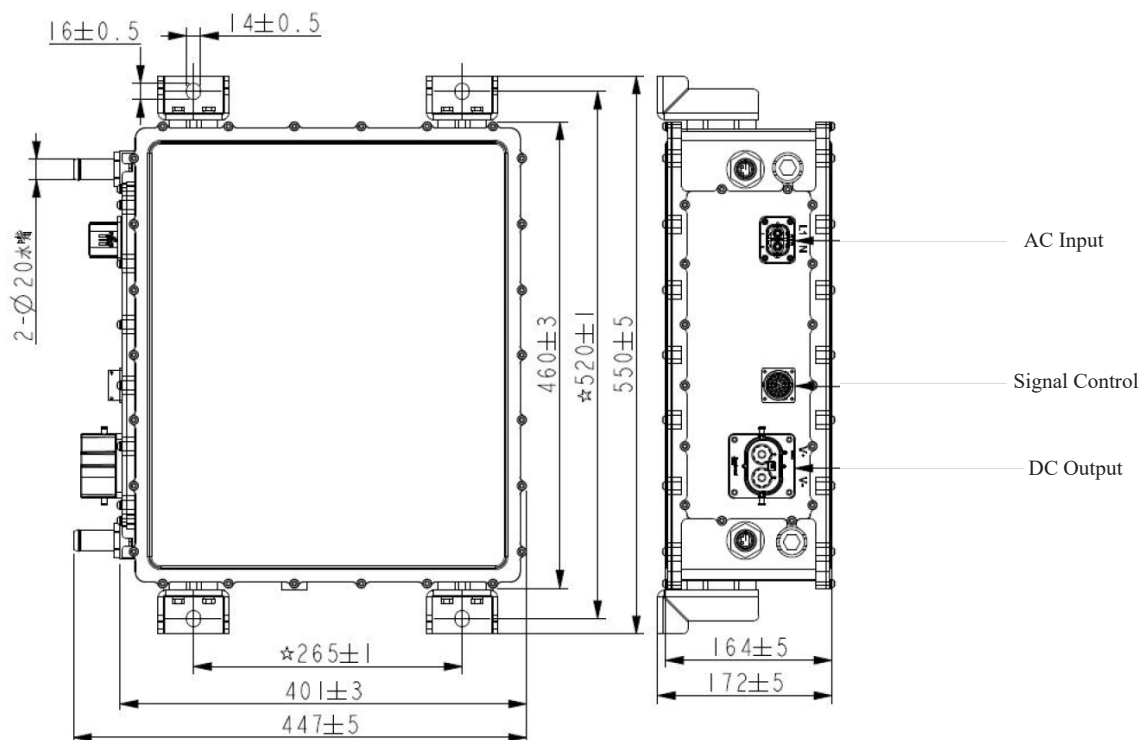
Specification

Description	Technical Specification	Remark
Operating Temperature	-40~85°C	Coolant inlet temperature
Rated Output Power	20KW	
Input Voltage Range	85~265VAC	
Rated Output Voltage	200~450VDC	
Rated Output Current	60A	
Auxiliary Voltage Range	9~32VDC	VCC
Efficiency	≥94%	Rated voltage
Voltage Accuracy	±1%	
Current Accuracy	±3%	
Low Voltage Wakeup	200mA max (wakeup signal)	Wakeup BMS/VCU, VCC followed
Wakeup Method	AC, PP/CP, EN(hardwire)	Support reservation charging
Communication Method	CAN-BUS	
Quiescent Current	≤2mA	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	
EMC	GB/T 18387-2008, EN 55022	



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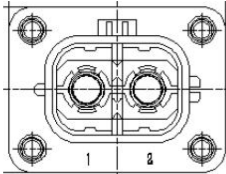
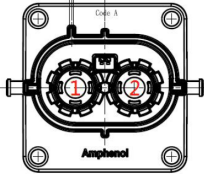
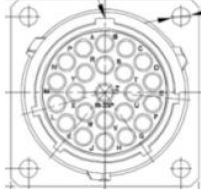
Structural Parameters (unit : mm)



Connector Model

Position	Function	Brand	Socket Model	Plug Model
1	AC Input	YongGui	YGC705-EV-P2RE	YGC705-EV-S2PE
2	DC Output	Amphenol	HVC2P95MV101	HVC2P95FS116
3	Signal Control	Amphenol	RT001823PN03	RT061823SNHEC03

Interface Definition

AC Input(1)		DC Output(2)		Signal Control(3)							
											
1	L	1	Output +	A	NTC1+	G	CANL1	N	LOCK FB2	V	PP
2	N	2	Output -	B	NTC2+	H	CANL2	P	EN_L	W	CP
				C	VCC+	J	NTC3+	R	PP_OUT	X	VCU_EN
				D	VCC-	K	NC	S	LOCK+	Y	NC
				E	CANH1	L	WAKE_UP	T	LOCK-	Z	NC
				F	CANH2	M	NTC-	U	LOCK FB1		