



13 KW OBC-Liquid Model No. ATC13K-220S640-W



Features

- 1 Output Power: 13KW
- 2 Input Voltage: 85~265VAC
- 3 Output Voltage: 450~750VDC
- 4 Dimensions: 370x252x158mm
- 5 Weight: ≤16KG
- 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 Online Upgrade & Fault Diagnosis: Supported

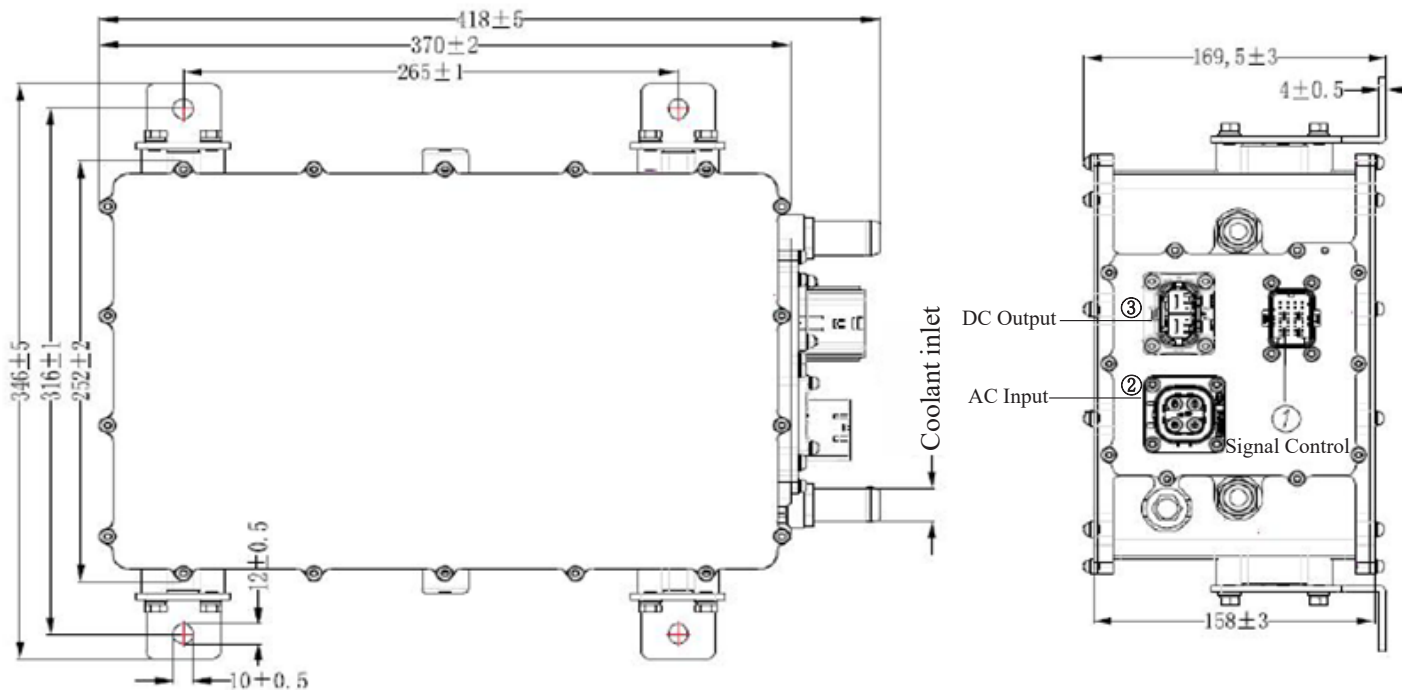
Specification

Description	Technical Specification	Remark
Operating Temperature	-40~85°C	Coolant inlet temperature
Rated Output Power	13KW	
Input Voltage Range	85~265VAC	
Rated Output Voltage	450~750VDC	
Rated Output Current	24A	
Auxiliary Voltage Range	9~32VDC	VCC
Efficiency	≥94%	Nominal voltage
Voltage Accuracy	±1%	
Current Accuracy	±3%	
Low Voltage Wakeup	12/24VDC@200mA max(wakeup signal)	Wakeup BMS/VCU
Wakeup Method	AC, PP/CP, VCU_EN	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, input reverse 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	Signal control	TE	2334366-2	2137299-8
2	AC Input	Amphenol	HVSL364024A	HVSL364064A106I
3	DC Output	Amphenol	HVC2P95MV201	HVC2P95FS216

Interface Definition

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	N	2	Output -	1B	CAN 1-L	2B	PP_OUT	3B	NTC 2 +	4B	HVIL_OUT
A	HVIL_IN	A	HVIL_IN	1C	EN_OBC	2C	NC	3C	NC	4C	NC
B	HVIL_OUT	B	HVIL_OUT	1D	NC	2D	NC	3D	NTC 1 & 2 -	4D	NC
	Ground to chassis			1E	PP	2E	NC	3E	Lock feedback 1	4E	NC
				1F	CP	2F	NC	3F	Lock feedback 2	4F	NC
				1G	VCC +	2G	NC	3G	Lock +	4G	NC
				1H	GND	2H	NC	3H	Lock -	4H	NC