

Model No. : ATC40K-380S380-W  
Product Name : 40KW OBC Liquid System



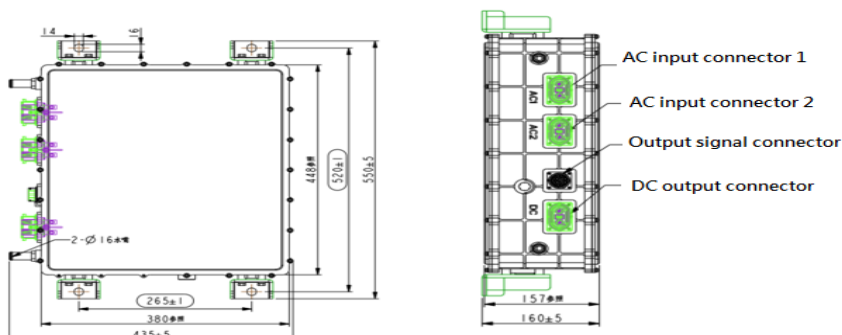
**Features**

- 1 Output Power : 40KW
  - 2 Input Voltage :  
3-phase 304~456VAC (L-L, 3-phase4-lines)
  - 3 1-phase 175~265VAC
  - 4 Output Voltage : 250~450VDC
  - 5 Dimensions : 448x380x160mm
  - 6 Cooling System : Liquid
  - 7 Protection Level : IP67
  - 8 Communication Method : CAN
  - 9 Small size, light weight and stable performance
- Full digital software design, redundant protection

**Specification**

Description		Technical specifications	Remark
Environmental characteristics	Operating temperature	-40~85°C	Working Long Time
	Vibration/noise	Meet the QC/T 895-2011 standard	
	Salt spray test	Meet the QB/T 2423.17-2008 standard	
Output power		Three phase 40KW/ Single phase 6.6KW	
Maximum input current		Three phase 63A/ Single phase 32A	
Input voltage range		Three phase 304~456VAC (line-line voltage · three phase four wire system) Single phase 175~265VAC	
Output voltage range		250-450VDC	
Output current accuracy		±0.5%	
Activation method		CP/CC/Hard line enable	
Low voltage input specification		13.8VDC(4Amax)	External low voltage supplies power to OBC.
Low voltage input power		30W	
Maximum output current		Three phase 128A/85A Single phase 20A/14A	
Output current accuracy		±3%	Half load or more
Efficiency		>94%	Rated voltage Full load
Other protection features		Input over-voltage, output over-voltage, over-temperature protection, over-current protection, output short-circuit protection, reverse battery protection, communication fault protection, internal fault protection.	
Over temperature protection		When the coolant temperature exceeds 65 °C, the output current decreases linearly, and drops to 20% of the rated current when it reaches 85 °C.	
Insulation strength	Output to the outer casing	2800VDC /60S 10mA Max	
	Input to the outer casing	2121VAC /60S 10mA Max	
	Input to output	3000VAC /60S 10mA Max	
Insulation resistance	Input to output	≥20MΩ	
	Input to the outer casing	≥20MΩ	
Electromagnetic compatibility	Radiation emission	GBT 18387 : 2008, EN 55022 CClassB	
	Conducted emission	GBT 18387 : 2008, EN 55022 CClassB	
	Radiation immunity	GBT 18387 : 2008, EN 55022 CClassB	

**Structural parameters**

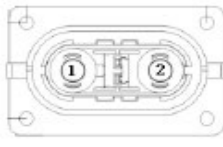
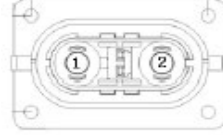
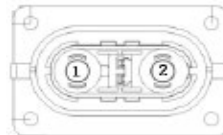
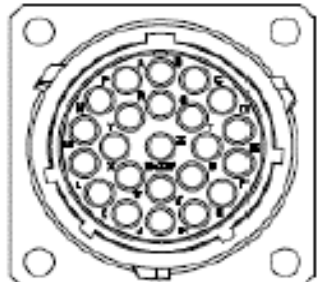


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### Connector model

Position	Socket model	Function	Brand	Plug model
A	YGC998-EV-S(2+2)R/II	AC input 1	Yong gui	YGC998-EV-P(2+2)PA/II
B	YGC998-EV-S(2+2)R/III	AC input 2	Yong gui	YGC998-EV-P(2+2)PA/III
C	YGC998-EV-S(2+2)R/I	DC output	Yong gui	YGC998-EV-P(2+2)PA/I
D	RT001823PN03	Control terminal	Amphenol	RT061823SNHEC03

### Interface definition

Vendor	Model	Description			Remark
Yong gui	AC input 1 YGC998-EV-S(2+2)R/II	1	L1	Live Wire 1	
		2	L2	Live Wire 2	
Yong gui	AC input 2 YGC998-EV-S(2+2)R/III	1	L3	Live Wire 3	
		2	N	Naught Wire	
Yong gui	DC output YGC998-EV-S(2+2)R/I	1	VOUT+	Output positive	
		2	VOUT-	Output negative	
Amphenol	Control terminal ( RT001823PN03 )	A	NTC1-	Temperature sensor 1 negative	
		B	NTC1+	Temperature sensor 1 positive	
		C	VCC+	Normal input positive	
		D	VCC-	Normal input negative	
		E	CAHN1	CAN1 High	
		F	CANH2	CAN2 High	
		G	CANL1	CAN1 Low	
		H	CANL2	CAN2 Low	
		J	NTC2-	Temperature sensor 1 negative	
		K	NTC2+	Temperature sensor 1	
		L	WAKE_UP	Output wake-up signal	
		M	CAN-G	CAN shielding ground	
		N	LOCK FB2	Electronic lock feedback 2	
		P	EN_L	Host selection (active low)	
R	CC_OUT	CC status output / low level enable signal			
S	LOCK+	Electronic lock power supply positive			
T	LOCK-	Electronic lock power supply negative			



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		U	LOCK FB1	Electronic lock feedback 1
		V	CC	
		W	CP	
		X	VCU_EN	Hardwire wake-up signal
		Y	VCC+	Normal input positive
		Z	VCC-	Normal input negative

