

Model No. : LWC40K-380S380-W
Product Name : 40KW ON BOARD CHARGER LIGUID

Date	Jul.13th, 2020	Version	V01	Remark	1. Model No. changed to LWC40K-380S380-W from AR-40K-380S14-W
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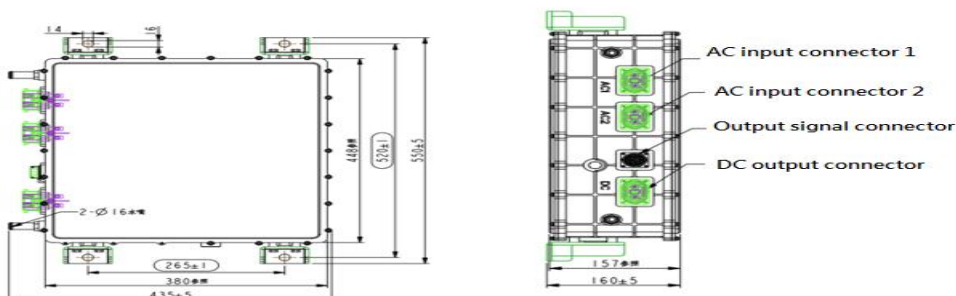
Features

- 1 Charging Standard: IEC
- 2 Output Power : 40KW
- 3 Input Voltage : 304~456VAC(three phase)/220±15%VAC
- 4 Output Voltage : 250~450VDC
- 5 Dimensions : 550x443x180mm
- 6 Cooling System : Water(LIGUID)
- 7 Protection Level : IP67
- 8 Communication Method : CAN
- 9 Small size, light weight and stable performance
- 10 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 phrase 40KW/ Single phrase 6.6KW	
Maximum input current		Three phrase 63A/ Single phrase 32A	
Input voltage range		Three phrase 304~456VAC (line-line voltage · three phase four wire system) Single phrase 175~265VAC	
Output voltage range		250-450VDC	
Output current accuracy		±0.5%	
Activation method		PP/CP/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 phrase 128A/85A Single phrase 20A/14A	
Output current accuracy		±3%	Half load or more
Efficiency		≥95%	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	
CAN byte speed		250Kbps/500Kbps	

Structural parameters


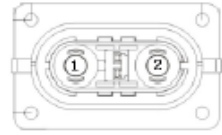
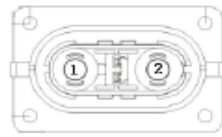
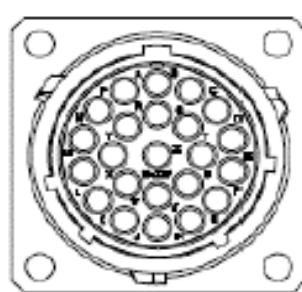


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Connector model

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 positive	
		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	CP_OUT	CP 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	CP	
		W	PP	
		X	VCU_EN	Hardwire wake-up signal
		Y	VCC+	Normal input positive
		Z	VCC-	Normal input negative

Label



安仁國際股份有限公司
 ANNREN TECHNOLOGIES CO., LTD.

OBC



Product Model: LWC40K-380S380-W
Code: LWC40K-380S380-W-AR01
Serial Number:

Input Voltage: Three-phase: 304~456VAC
 Single-phase: 175~265VAC

Output Voltage: 250~450VDC
Output Power: 40KW

Output Current: Single-phase: 20A/14A
 Three-phase: 128A/85A

