

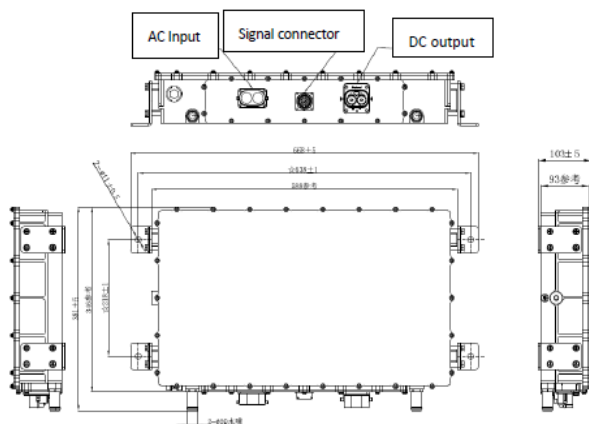
Model No. : LWC20K-220S640-W
Product Name : 20KW ON BOARD CHARGER LIQUID

- ★ **Features**
- 1 Output Power : 20KW
 - 2 Input Voltage : 85~265VAC
 - 3 Output Voltage : 450~750VDC
 - 4 Dimensions : 588x346x103mm
 - 5 Cooling System : Liquid
 - 6 IP Rating : IP67
 - 7 Communication : CAN-BUS
 - 8 Enclosure: Aluminum alloy made
 - 9 Software: Digital software design

Specification

Description	Technical specifications	Remark
Operating temperature	-40~85°C	Working for long time
Rated output power	20KW	
Input voltage range	85~265VAC	
Output voltage range	450~750VDC	
Maximum output current	33A	
Auxiliary power supply	9-32VDC	VCC
Efficiency	≥ 94%	@nominal voltage
Voltage accuracy	±1%	
Current accuracy	±3%	
Low voltage wake-up	12/24Vdc&200mAmax (WAKE_UP signal)	Wake up BMS/VCU
Wake-up mode	AC/PP/CP/VCU_EN	Support appointment charging
Communication mode	CAN-BUS	
Static Current	≤4mA	Sleep mode/ consume batter current at stop status
EMC characteristics	GB/T 18387-2008, EN 55022	
Dimensions	588x346x103mm	
IP Rating	IP67	
Cooling System	Liquid, flow rate≥ 10L/min	
Weight	≤25KG	
CAN byte speed	250Kbps/500Kbps	
Protection	Input OVP/UVP, output OVP/UVP,OTP, OCP, output short circuit protection, CAN communication breakdown protection	

Structural parameters


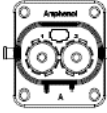
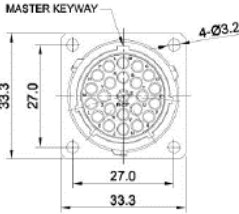


Model No. : LWC20K-220S640-W
Product Name : 20KW ON BOARD CHARGER LIGUID

Connector Table

Item	Position	Receptacle model no.	Pinout definition	Maker	Plug model no.
1	A	HVSL600022A1H6	AC input	Amphenol	HVSL600062A125
2	B	HVC2P60MV100	DC output	Amphenol	HVC2P60FS110
3	C	RT001823PN03	Signal control	Amphenol	RT061823SNHEC03

Interface definition

Connector	Pin no.	Description		Picture
AC Input HVSL600022A1H6	1	L	Hotline	
	2	N	Neutral Line	
	A	Interlock 1	Connect to interlock 6	
	B	Interlock 2	Connect to interlock 3+	
			Ground line connected to housing	
DC Output HVC2P60MV100	A	Positive	Output +	
	B	Negative	Output -	
	1	Interlock 3	Connect to interlock 2	
	2	Interlock 4	Connect to interlock 5	
Signal Connector RT001823PN03	A	CAN-L	CAN Low	
	B	VCC+	VCC+ Input+	
	C	VCU_EN	KL15 wake up OBC, EN signal (EN high potential valid)	
	D	PP	Proximity Detection	
	E	CP	Control pilot	
	F	WAKE_UP	VCU/BMS wake up signal (200mA) Isolatd from VCC	
	G	NTC1-	Temp. sensor1 -	
	H	NTC1+	Temp. sensor1 +	
	J	NTC2-	Temp. sensor2 -	
	K	NTC2+	Temp. sensor2 +	
	L	CAN-H	CAN High	
	M	LOCK+	Electronic lock	
	N	LOCK-	Electronic lock	
	P	LOCK FEEDBACK	Electronic lock	
	R	PP_OUT	PP status output, Low potenial EN	
	S	Interlock 5	Connect to interlock 4	
	T	Interlock 6	Connect to interlock 1	
	U	GND	GND	
	V	NC	Reserved	
	W	NC	Reserved	
X	NC	Reserved		
Y	NC	Reserved		
Z	NC	Reserved		

