

**Model No. : LWC13K-220S640-W**  
**Product Name : 13KW ON BOARD CHARGER LIQUID**

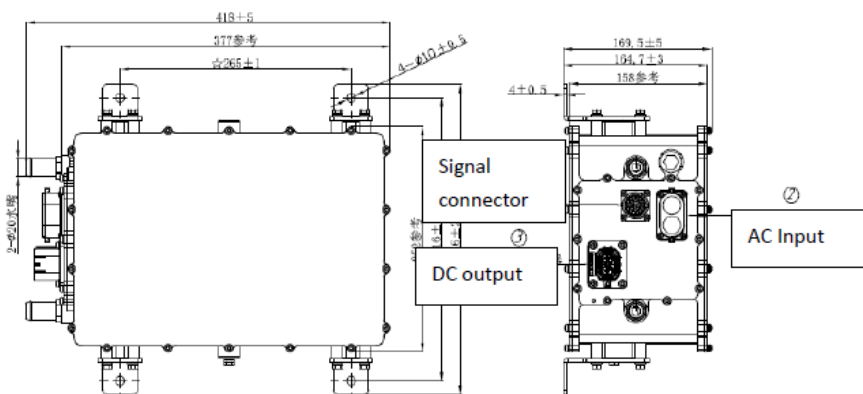


- ★ **Features**
- 1 Charging Standard: SAE
  - 2 Output Power : 13KW
  - 3 Input Voltage : 85~265VAC
  - 4 Output Voltage : **450~750VDC**
  - 5 Dimensions : 374x252x165mm
  - 6 Cooling System : Liquid
  - 7 IP Rating : IP67
  - 8 Communication : CAN-BUS
  - 9 Enclosure: Aluminum alloy made
  - 10 Software: Digital software design

**Specification**

Description	Technical specifications	Remark
Rated output power	13KW	
Input voltage range	85~265VAC	
Output voltage range	<b>450-750VDC</b>	
Maximum output current	24A	
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
Operating temperature	-40-85°C	Working for long time
EMC characteristics	GB/T 18387-2008, EN 55022	
Dimensions	374x252x165mm	
IP Rating	IP67	
Cooling System	Liquid, flow rate≥ 10L/min	
Weight	≤20KG	
CAN byte speed	250Kbps/500Kbps	
Protection	Input OVP, UVP, output OVP, UVP, OTP, OCP, output short circuit protection, communication fault protection	

**Structural parameters**

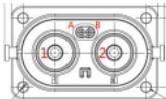
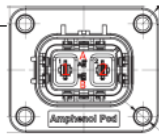
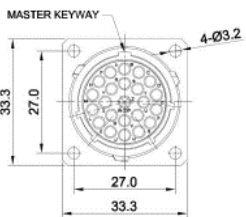


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**Connector Table**

Item	Position	Receptacle model no.	Pinout definition	Maker	Plug model no.
1	A	HVSL600022A1H6	AC input	Amphenol	HVSL600062A125
2	B	HVSL630022A106	DC output	Amphenol	HVSL630062A10610
3	C	RT001823PN03	Signal control	Amphenol	RT061823SNHEC03

**Interface definition**

Connector	Pin no.	Description		Picture
AC Input HVSL364024A	1	L	Line	
	2	N	Neutral Line	
	A	Interlock 1	NC	
	B	Interlock 2	NC	
			Ground line connected to housing	
DC Output HVSL630022A	1	Positive	Output +	
	2	Negative	Output -	
	A	Interlock 3	NC	
	B	Interlock 4	NC	
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	NC	
	T	Interlock 6	NC	
	U	NC	Reserve	
	V	TB_R	Terminal resistance selection, short connected to the C pin resistance is effective	
	W	NC	GND	
X	NC	Reserved		
Y	NC	Reserved		
Z	NC	Reserved		

