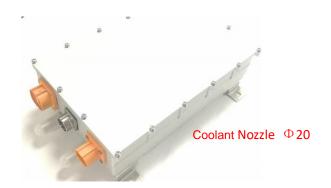
No.196-19, Zhonghua Rd., Yongkang Dist., Tainan City 71069, Taiwan

Version: 02	Date: Oct. 25 th , 2019	Remark: Label added
Version: 03	Date: Oct. 30th, 2019	Remark: Weight added
Version: 04	Date: 11th Nov., 2019	Remark: Terminal P/N added
Version: 05	Date: 1 st Jul., 2020	Remark: 1. Model No. changed to LWC11K-380S380-W from AR11K3S-250380W 2. Size (mm) changed to 364x224x100mm from 345x224x100mm. 3. Coolant Nozzle changed to Φ20 fromΦ16. 4. AC input changed to HVSL364064A106l from HVSL364064A104l. 5. F: WAKE_UP changed to 200mA from 100Ma. 6. S、T、Z description added.

11KW ON BOARD CHARGER Model No.: LWC11K-380S380-W



Features

Product Name	11KW ON BOARD CHARGER
Model No.	LWC11K-380S380-W
Standard	GB/T / IEC
Output Power	Three phase 11KW/single phase 3.3KW or 6.6KW
Input Voltage Range	Three phase 304~456VAC(line to line voltage, three phase
	four wire)/single phase 176~265VAC
Output Voltage Range	250~450VDC
Maximum output current	Three phase: 32A, 6.6KW single phase: 20A
Efficiency	≥95%
Low voltage input auxiliary source	13.8VDC (4Amax)
Size (mm)	364x224x100mm
Cooling System	Liquid Cool
IP Rating	IP67
Scope	Various new energy vehicles
Hardware	Small size, light weight and stable performance
Firmware	Full digital software design, redundant protection function
Hardware	Small size, light weight and stable performance

design

This charger has several advantages, including:

- 1. The volume and weight of automotive grade products: down more than 20%.
- 2. Real-time monitoring: real-time control and function control are performed on the hardware by a separate "core"

It is easy to test the international mainstream EMI standards.

The product design conforms to the international mainstream safety and standard.

It can be compatible with the following different types of AC charging piles, while allowing continuous charging in the case of grid disconnection

- 3. Meet the new national standard GBT18487.1-2015.
- 4. Reserve hardware interfaces for interconnection between the Internet of Vehicles, mobile Internet and car chargers.
- 5. Retain the hardware interface for the secondary development of ASIL functional safety in the future.
- 6. Compatible with charging power expansion 22KW, 40KW, 80KW, etc.

Weight Net: 10KG Gross: 12KG

Specification

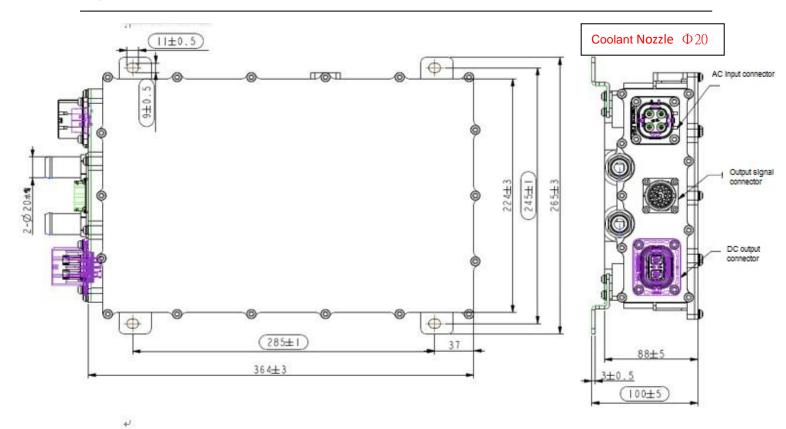
Specification			Remark
Environmental	Operating temperature	-40~85℃	long-time working
	Vibration/noise	Meet the QC/T 895-2011 standard	
characteristics	Salt spray experiment	Meet the QB/T 2423.17-2008 standard	
Output Power		Three phase 11KW / single phase 3.3KW or 6.6KW	
Input voltage range		Three phase 304~456VAC (line to line voltage, three phase four wire) Single phase 176~265VAC	
Output voltage i	ange	250~450VDC	
Low voltage input auxiliary source		13.8VDC (4Amax)	
Activation method	bd	CP/CC/hard wire	
Voltage accurac	У	±1%	
Output maximum current		11KW Three phase: 32A, 6.6KW single phase: 20A	
Voltage ripple factor		≤±1%	
Current accuracy		±3%	≧Half load
Efficiency		≥95%	Rated voltage Full load



		The rise time of the output voltage of	
Output response time		the car charger should be less than 300ms, and the overshoot should be less than 10%. After receiving the shutdown command, the current drops below 10% within 300ms and drops to 0A within 500ms.	
Other protection features		Input overvoltage, input undervoltage, output overvoltage, output undervoltage, output undervoltage, short circuit, output overcurrent overtemperature, reverse connection protection potential equalization and ground protection, power failure protection.	
Over temperature protection		When the temperature reaches 85 °C, the output power is reduced by half. The temperature is <80 °C in 10 minutes, and the full load is automatically restored. After 10 minutes, the temperature is >80 °C, then it is turned off. When the temperature is >90 °C, it will be shut down directly.	
Dielectric	Output to the outer casing	2000VDC /60S 10mA Max	
strength	Input to the outer casing	1500VAC /60S 10mA Max	
	Input to output	3000VAC /60S 10mA Max	
Insulation	Input to output	≥20MΩ	
resistance	Input to the outer casing	≥20MΩ	
EMC	Electromagnetic immunity	GB/18487.3-2001 Class B	Cooperate with the whole vehicle
EMC Electromagnetic disturbance		GB/18487.3-2001 Class B	Cooperate with the whole vehicle

Structural parameters

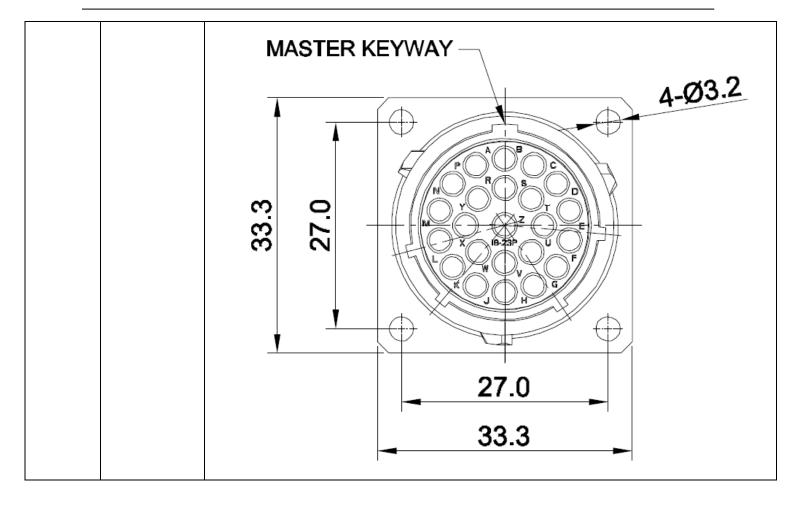
Pinout	Receptacle Model no.	Function	Maker	Plug Model No.	Terminal Model No.	Stopper Model No.
Α	HVSL364024A	AC input	Amphenol	HVSL364064A106I	C310026001	\
В	HVSL630022A	DC output	Amphenol	HVSL630062A	C310003623	\
С	RT001823PN03	Signal	Amphenol	RT061823PNHEC03	SS16M1F	AT13-204-2005



MAKER	Model No.	Description Remark			Remark	
		1	Fire line L1	L1 (Single FireWire Fixed Input)		
		2	Fire line L2	L2 (reserved, 11KW enabled)		
AC input Amphenol	HVSL364024A	3	Fire line L3	L3 (reserved, 11KW enabled)		
		4	N	Neutral/midline		
		Α	NC	NC	Amphenol PCD Q	
		В	NC	NC		
	casing	N	Ground line	Product enclosure	Whole machine housing terminal	
		1	positive	Output positive		
DC output Amphenol	HVSL630022A	2	negative	Output negative		
Amphenoi		Α	Interlock 1	Connection interlock 5	Amphenol Ped	
		В	Interlock 2	Connection interlock 6	Paraphronio 1 od	
		Α	CAN1-L	CAN LOW		
Signal		В	VCC+	Normal input positive		
Amphenol	RT001823PSN03	_		Hard-wire wake-up OBC,		
		С	VCU_EN	enable signal (
			High level effective)			



D	CC	CC
E	СР	СР
		VCU/BMS wake-up signal
		(200mA)
F	WAKE_UP	Isolated from input
		constants
	NTO	Temperature sensor 1
G	NTC1-	negative
	NITO4 .	Temperature sensor 1
H	NTC1+	positive
	NTC2-	Temperature sensor 2
J	NTC2-	negative
	NTC2+	Temperature sensor 2
K	NTC2+	positive
L	CAN1-H	CAN high
M	LOCK+	Actuator
N	LOCK+	Actuator
Р	LOCK feedback	Actuator
R	CC_OUT	CC status output, turn on
K	CC_001	low level
S	Interlock 5	Interlock signal detection 1
Т	Interlock 6	Interlock signal detection 4
U	NC	NC
		Terminal resistance
V	TB_R	selection, short circuit to C
V	I D_IX	pin, the resistance is
		effective
W	GND	GND
X	CAN2-L	Internal parallel CAN2 low
Υ	CAN2-H	Internal parallel CAN2 high
Z	EN2	Internal parallel enable
	LIVE	(reserved)



Label

