

SAE J1772 6.6KW 540V ON BOARD CHARGER

Model No.: AR-6K6-220D54014-A-SAE



Features

Product Name	6.6KW ON BOARD CHARGER
Model No.	AR-6K6-220D54014-A-AR01
Standard	SAE J1772
Power	6.6KW
Input Voltage	90~264VAC
Output Voltage	420~650VDC
Output Current	14A
Efficiency	≥93%
Module Low Voltage (VDC)	13.8VDC
Module Low Current (A)	200mAmax
Can Bus Speed	500 kb/s
Size (mm)	380x244x126mm
Cooling System	Fan Cooling
IP Rating	IP67 (Fan is excluded)
Scope	Various new energy vehicles
Hardware	Small size, light weight and stable performance
Firmware	Full digital software design, redundant protection function design

Specification

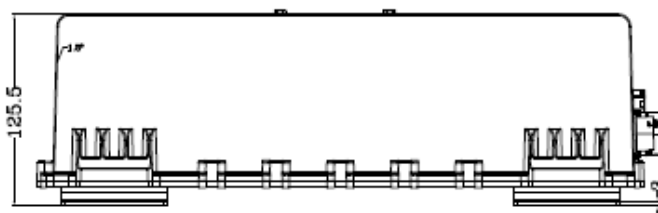
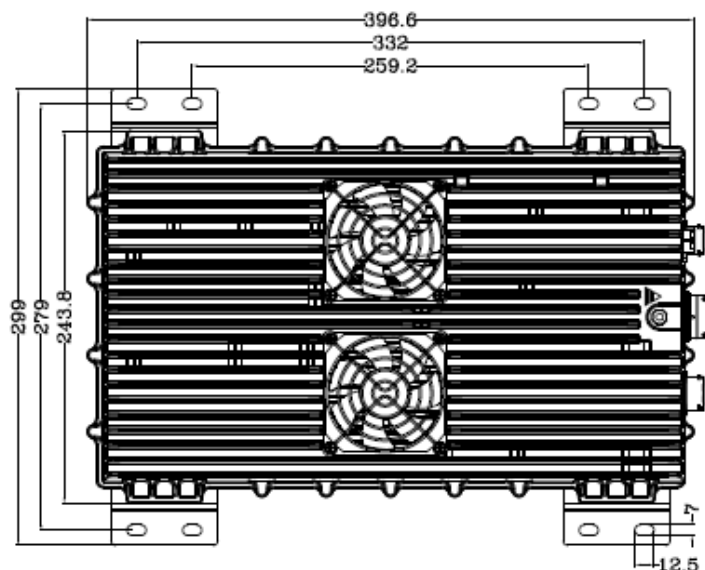
Parameters		Requirements
Environmental characteristics	Operating temperature	-40~65°C (long-time working)
	Vibration / noise	Meet QC / T 895-2011 standard
	Salt spray test	Meet QB / T 2423.17-2008 standard
Output Power		6.6KW max
Input voltage range		90~264VAC
Output voltage range		420-650 VDC
Voltage accuracy		±1%
Output current		14A
Current accuracy		±3% (More than half load)
Efficiency		≥93% (Rated voltage, full operation)
Low voltage wake-up signal		13.8VDC/7Amax (Customized)
Other protection features		Input over and under voltage, output over and under 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 temperature reaches 85 ° C, the output power is halved, and the temperature is lower than 80 ° C within 10 minutes, and the load is automatically restored. After 10 minutes, the temperature is higher than 80 ° C, then the power is turned off.
Dielectric strength	Output to casing	2000VDC /60S 10mA Max
	Input to casing	1500VAC /60S 10mA Max
	Input to output	3000VAC /60S 10mA Max
Insulation resistance	Input to output	≥20MΩ
	Input to casing	≥20MΩ

Electromagnetic compatibility	Radiation emission	GBT 18387 : 2008 , EN 55022 Class B
	Conducted emission	GBT 18387 : 2008 , EN 55022 Class B
	Radiation immunity	GBT 18387 : 2008 , EN 55022 Class B

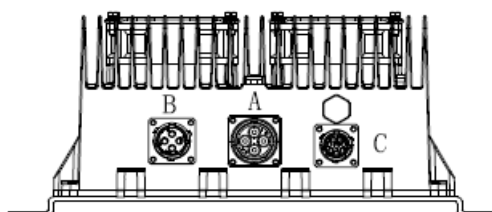
Structural parameters

一、Connector Table (customized)

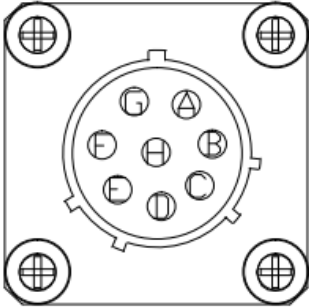
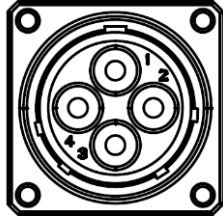
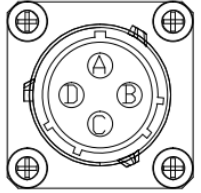
Position	Receptacle model no.	Pinout definition	Maker	Plug model no
A	C10518N1-04-1-G001	AC input	AVIC	C10518N1-04-1-2-G001
B	RT00144PN03	DC output	Amphenol	RT06144SNHEC03
C	RT00128PN03	Signal socket	Amphenol	RT06128SNHEC03



A: 交流输入
 B: 高压直流输出
 C: 信号接插件



二、Pinout definition

Maker	Receptacle model no.	Description		Connector picture
Amphenol	RT00128PN03	A	CAN-H	
		B	Proximity Detection (CC)	
		C	Control pilot (CP)	
		D	Constant battery power (12V Input)	
		E	OBC-EN (Wake-up signal)	
		F	J1772 mode enable (High level signal)	
		G	CANL	
		H	GND	
AVIC	C10518N1-04-1-G001	1	L (Fire wire)	
		2	N (Zero line)	
		3	PE (Protected area)	
		4	NC	
Amphenol	RT00144PN03	A	Output positive	
		B	Interlock 1	
		C	Output negative	
		D	Interlock 2	

Label

Product Name	SAE J1772 6.6KW 540V ON BOARD CHARGER
Product Part No.	E25.AR-6K6-220D54014-A-SAE
Product Model	AR-6K6-220D54014-A-SAE
Serial number	2019XXXXXXXX
Supplier	ANNREN TECHNOLOGIES CO., LTD.