

Model No. : AR11K-220S380M
Product Name : 11KW On Board Charger Module

Date Issued: Feb. 21st, 2020



11KW On Board Charger Module

★ **Features**

- 1 Output Power : 11KW(Rated 220V)/5KW (Rated 110V)
- 2 Input Voltage : 90~264VAC/50A
- 3 Output Voltage : 250~450VDC
- 4 Dimensions : 340x220x60mm
- 5 Communication : CAN
- 6 Charging Standard : SAE
- 7 Software: Digital software design
- 8 CAN Protocol: Intel and Motorola available
- 9 Weight ≤7KG

Applications



Electric Commercial Vehicles



Electric Commercial Vehicles

Specification

Description		Parameters	Remark
Environmental characteristics	Operating temperature	-40~85°C	Long-time working
	Vibration/noise	Meet the QC/T 895-2011 standard	
	Salt spray experiment	Meet the QB/T 2423.17-2008 standard	
Output Power		11KW(Rated 220V)/5KW (Rated 110V)	
Input voltage range		90~264VAC/50A	
Output voltage range		250~450VDC	
Voltage accuracy		±1%	
Output maximum current		32A	
Current accuracy		±3%	Half load or more
Efficiency		≥94%	Rated voltage Full load
Low voltage (VDC)		12 or 24Vdc / 200mAmax (WAKE_UP + signal)	
Activation method		CC, CP, CAN, hardwired, AC (optional)	
Design lifetime		20 years or 200,000 kilometers	
Protection characteristics		Input overvoltage, input undervoltage, output overvoltage, output undervoltage, short circuit, output overcurrent, overtemperature, reverse connection protection, power failure protection.	
EMC standard		GBT 20234/GBT18487 · EN 55022 CClassB	
Interface function		New GB/T CC, CP, cc_out, European standard, American standard (optional)	
Weight	Net weight / Gross weight	≤7KG	



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Pinout definition

System Load definition	Pin number	Pinout definition	Description
AC input (M5 stud)	1	L	Fire wire, metal terminal block, 64A MAX
	2	N	Neutral, metal terminal block, 64A MAX
	3	PE	Protective ground point, grounded through the chassis.
DC output (M4 stud)	1	VOUT+	MAX 32A
	2	VOUT-	MAX 32A
Control terminal Socket: 105314-1216 Plug: 105308-1216 Pin:	1	OBC~VCC-	OBC external input
	2	OBC~VCU_EN	VCU wakes up OBC (reserved)
	3	LOCK+	OBC drive electronic lock lock / unlock
	4	LOCK-	OBC drive electronic lock lock / unlock
	5	LOC feedback 1	Electronic lock feedback signal
	6	CAN-H	OBC Communications High
	7	CAN-L	OBC communication low
	8	OBC ~ J1772 mode enable (high-level signal)	VCU / BMS wake-up signal (100mA) is isolated from input
	9	OBC~VCC+	OBC external input
	10	CC_OUT	CC_OUT (reserved)
	11	NTC1-	Slow charge socket temperature 1 negative
	12	NTC1+	Slow charge socket temperature 1 positive
	13	NTC2-	Slow charge socket temperature 2 negative
	14	NTC2+	Slow charge socket temperature 2 positive
	15	Proximity Detection (CC)	Charging connection signal
	16	Control pilot (CP)	Charge control signal

Label

Product Name	11KW On Board Charger Module		
Product Part No.	e25.AR11K-220S380M		
Product Model	AR11K-220S380M		
Serial Number	2020XXXXXXXX		
Input Voltage	90~264VAC/50A	Output Voltage	250~450VDC
Output Current	32A	Output power	11000W
Supplier	ANNREN TECHNOLOGIES CO., LTD.		

