

Model No. : ATC11K-380S540-M
Product Name : 11KW OBC Module

Date	Jul.13th, 2020	Version	V01	Remark	1. Model No. changed to ATC11K-380S540-M from AR11K-220S540M
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11KW On Board Charger Module

Applications



Electric Commercial Vehicles



Electric Commercial Vehicles

★ Features

- 1 Output Power :
11KW(Rated 220V)/5KW (Rated 110V)
- 2 Input Voltage : 3-phase 304~456VAC
1-phase 175~265VAC
- 3 Output Voltage : 400~650VDC
- 4 Dimensions : 300x200x60mm
- 5 Cooling System : Module
- 6 Communication : CAN
- 7 Standard : SAE
- 8 Enclosure: Aluminum alloy made
- 9 Software: Digital software design

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		3-phase 304~456VAC / 1-phase 175~265VAC	
Output voltage range		400~650VDC	
Voltage accuracy		±1%	
Output maximum current		23A	
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		CP, PP, 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 ClassB	
Interface function		New GB/T CC, CP, cc_out, European standard, American standard (optional)	
Weight	Net weight / Gross weight	≤6.5KG	
CAN byte speed		250Kbps/500Kbps	

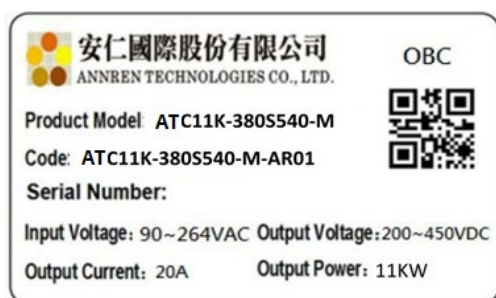


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Pinout definition

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	CP_OUT	CP_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



Packing Information

Carton size	340x220x60 (mm)
Weight (KG)	7.0KG

