

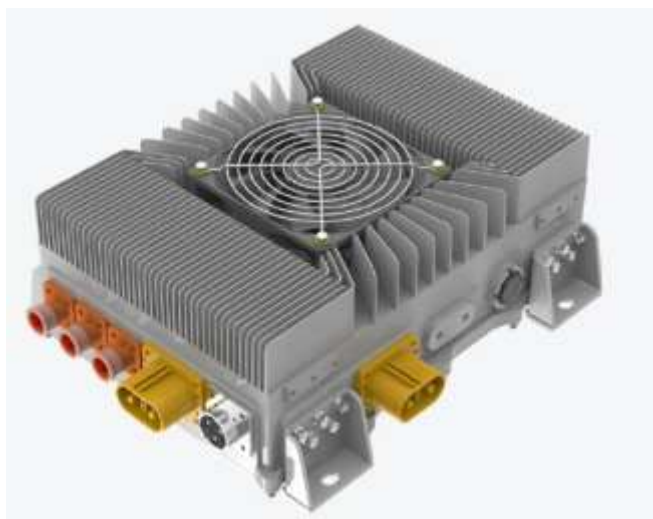


0-1000Vdc 0-80A 6.6KW On Board Charger Fan Model No. ATRC6K6-xxxxxF

MODEL NO. TABLE

Model NO.	Rated Voltage Out(Vdc)	Voltage Out Range(Vdc)	Current Out Range(A)
ATRC6K6-80009F(I)(S)	800	0-1000	0-9
ATRC6K6-54012F(I)(S)	540	0-720	0-12
ATRC6K6-36018F(I)(S)	360	0-500	0-18
ATRC6K6-14444F(I)(S)	144	0-200	0-44
ATRC6K6-10860F(I)(S)	108	0-140	0-60
ATRC6K6-08080F(I)(S)	80	0-105	0-80

The model no. will be added +I for charge mode IEC, +S for charge mode SAE
The connectors for the housing is for reference only. Will be modified soon.



Features

- 1 Output Power: 6.6KW
- 2 Input Voltage Range (VAC): 90~290
- 3 Isolated: supported
- 4 Dimensions(mm): 300x211x115
- 5 Weight(KG): 10±0.5
- 6 Cooling System: Fan
- 7 Protection Level: IP67
- 8 Communication Method: CAN-BUS SAE J1772
- 9 Enclosure: Aluminum alloy
- 10 Software: Digital software design
- 11 Online Upgrade & Fault Diagnosis: Supported

Specification

Description	Technical Specification	Remark
Input Voltage Frequency(Hz)	45~65	
Rated Input Voltage Frequency(Hz)	50 / 60	
Initiation Inrush Current(A)	≤32	
Input Power Factor	≥0.99(@380Vin, Pomax)	
Voltage Regulation Accuracy(%)	±1	
Current Regulation Accuracy(%)	±0.5A (Io≤10A) & ≤±5% (Io>10A)	
Output Response Time(mS)	≤200	
Efficiency	≥92%	Rated voltage
Low Voltage Wakeup	200mA max (wakeup signal)	
Wakeup Method	PP/CP, EN(hardwire)	
Quiescent Current(mA)	≤2	Battery current will be consumed in sleep/standby mode



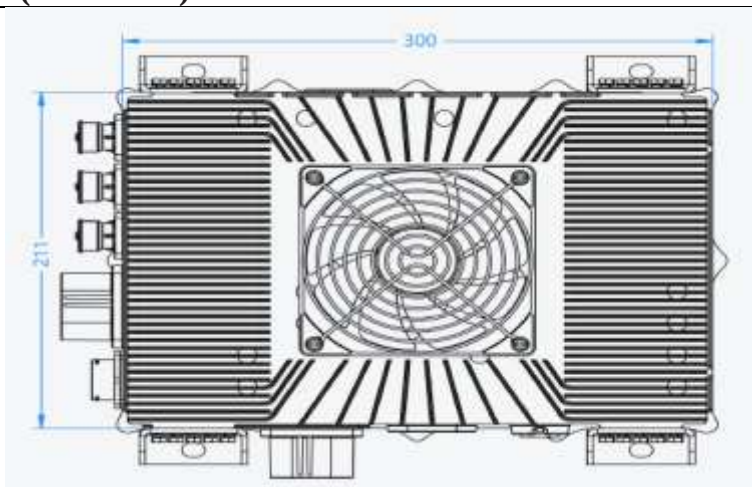
Operating Environment

The operating environment conditions of this assembly are as follows:

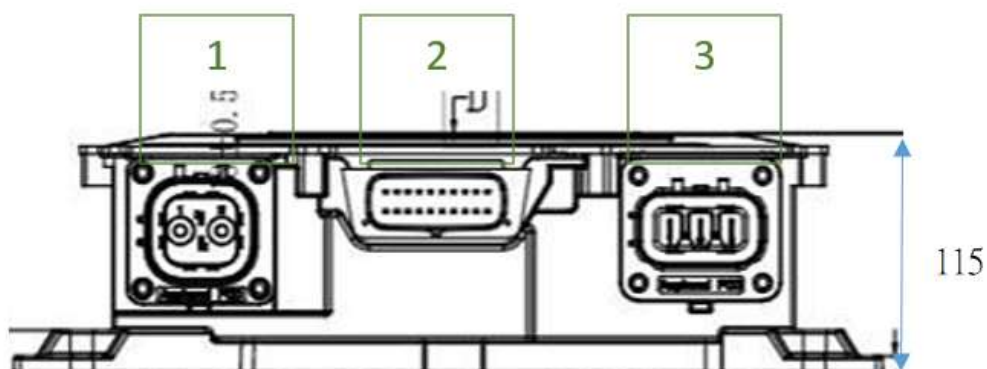
Items	Descriptions		Remark
1.	Operating Temperature(°C)	-40~65	The power will be derated when the temperature exceeds 65°C
2.	Storage Temperature(°C)	-40~95	
3.	relative humidity(%RH)	5~95	No condensation, no frost
4.	Protection level	IP67	
5.	Cooling method	Fan	
6.	Vibration level	ISO 16750-3,2012 (E)	After X,Y,Z three directions of sweep frequency vibration testing, no damage for parts , no loose for fastening piece
7.	Noise level(dB)	<60	
8.	Salt spray level	GB/T 2423.17	
9.	Dielectric strength	Primary edge - Secondary edge 2000VAC	Primary edge , Secondary edge-Housing edge 1500VAC
10.	Durability	GB/T 24347-2009	
11.	Insulation resistance	Primary edge - Secondary edge $\geq 50M\Omega$	
12.	Harmonic Current	GB/T 17625.1-2003 6.7.3.1	
13.	Altitude(M)Max	3000	GB/T16935.1-2008
14.	Impact Resistance	GB/T T15139-1994 6.5	
15.	Fall	Wiring harness according to QC/T417.1-2001 Housing according to GB/T 2423.8-1995	Appearance, structure and performance are normal
16.	Protection Characteristics	Input OVP/UVP, output OVP/UVP, input anti-reverse connection, output short circuit protection, OCP, OTP	
17.	Over/under voltage protection	The system can automatically recover from both input over/under voltage shutdown and output over/under voltage shutdown.	
18.	Output reverse connection and short circuit protection	The device shuts down when the output is short-circuited or reverse-connected, but it can self-recover.	
19.	Over-temperature protection	When the heat sink temperature exceeds 75°C, the output power is reduced; when the temperature exceeds 95°C, the circuit is disconnected; the charger resumes output power when the charging temperature returns to below 85°C.	
20.	Electromagnetic immunity	GB/T 18487.3_11.3.1	
21.	Electromagnetic disturbance	GB/T 18487.3_11.3.2	



Structural Parameters (unit : mm)



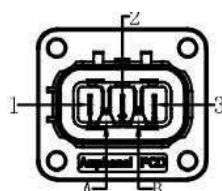
The connectors will be modified to be the connector table



1. OBC Output : Will be modified according to the Model no.

Brand	Pin	Definition
RECODEAL	1	Positive
	2	Negative
	A、B	HVIL

3 AC Input: Will be modified according to the Model no.

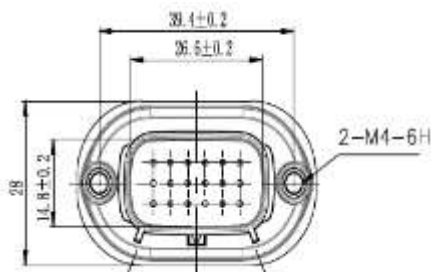


Brand	Pin	Definition
RECODEAL	1	N
	2	PE
	3	L



		A, B	HVIL	
	Socket P/N			
	Plug P/N			

2. Signal Connector: BRAND: Recodeal socket: RS4-J18ZY-AH-B Plug: RS4-K18ZY-AH-B, KEY A, 8A, 0.75MM2



No.	Definition	Name	Description	Remark
1	Thermal resistor 1-1	Charging socket thermal sensor 1-1	AC charger internal temperature detection resistance signal, voltage 5V, current < 5mA.	
2	Thermal resistor 1-2	Charging socket thermal sensor sensor 1-2		
3	Thermal resistor 2-1	Charging socket thermal sensor sensor 2-1		
4	Thermal resistor 2-2	Charging socket thermal sensor sensor 2-2		
5	Proximity detection	PP signal	The connection confirmation signal is used to test whether the charging head is connected to the vehicle. The voltage is 5V and the current is < 10ma.	
6	Charging control pilot	CP signal	It is used to test the maximum current allowed by the charging pile and test the reliability of the connection between the vehicle and the charging pile.	
7	KL30 Constant Power Input Positive	VCC +	Normal power supply input 9-16V, peak current 3A (electronic lock suction), time 1.5S, sleep current ≤1ma.	9-32 V of auxiliary battery.



8	Electronic lock power +	Electronic lock on the lock power positive Electronic lock unlocks power negative	Electronic lock drive, voltage 12V, peak current 2.9A.	
9	N/A			
10	12V5A+	OBC Low voltage +	Controlled output voltage 13.8V, maximum output current capacity 5.5A (long time).	9-32 V of auxiliary battery.
11	CAH-H	CAN High		
12	CAN-L	CAN Low		
13	HVIL+	HVIL + 1	Optional vehicle inspection vehicle or charger test to test whether the high voltage DC connector is reliably connected. The maximum voltage is 12V and the current is no more than 0.1A.	9-32 V of auxiliary battery.
14	HVIL-	HVIL - 2		
15	Electronic lock feedback wire -	Electronic lock feedback wire -	Electric lock in place signal detection, current maximum 0.5ma.	
16	Electronic lock feedback wire +	Electronic lock feedback wire +	Electric lock in place signal detection, current maximum 0.5ma.	
17	KL31 Constant Power Input Negative	VCC -	Normally input negative electrode, according to customer requirements can be connected with the OBC grounding position. Voltage 0V, peak current 5A.	
18	Electronic lock power supply -	Electronic lock on the lock power negative Electronic lock unlocks power positive	Electronic lock drive -, voltage 12V, maximum peak current 5A.	9-32 V of auxiliary battery.