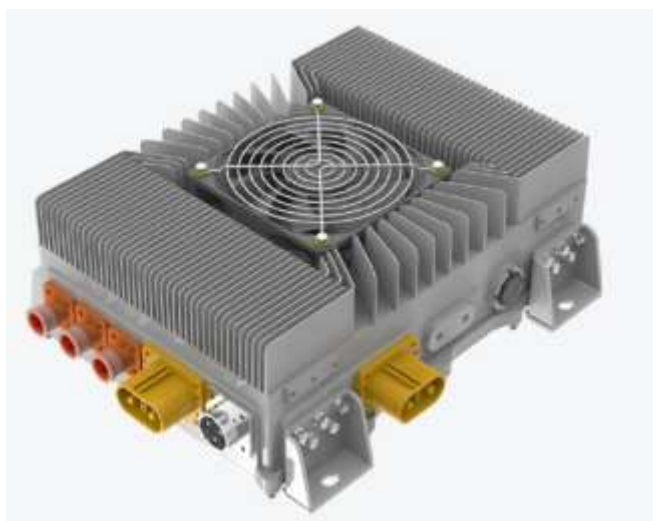


Output 0-200Vdc 44A 6.6KW On Board Charger Fan

Model No. ATRC6K6-14444F(I)(S)

Model NO.	Rated Voltage Out(Vdc)	Voltage Out Range(Vdc)	Current Out Range(A)
ATRC6K6-14444F(I)(S)	144	0-200	0-44

The model no. will be added +I for charge mode IEC, +S for charge mode SAE



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 J1939
- 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, Pmax)	
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

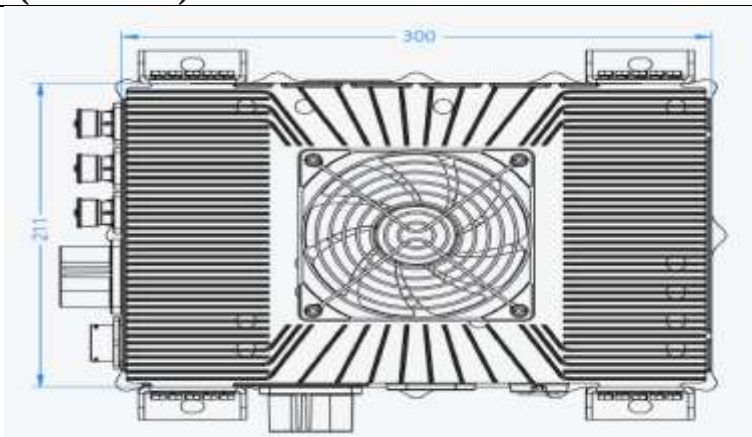
Operating Environment

The operating environment conditions of this assembly are as follows:

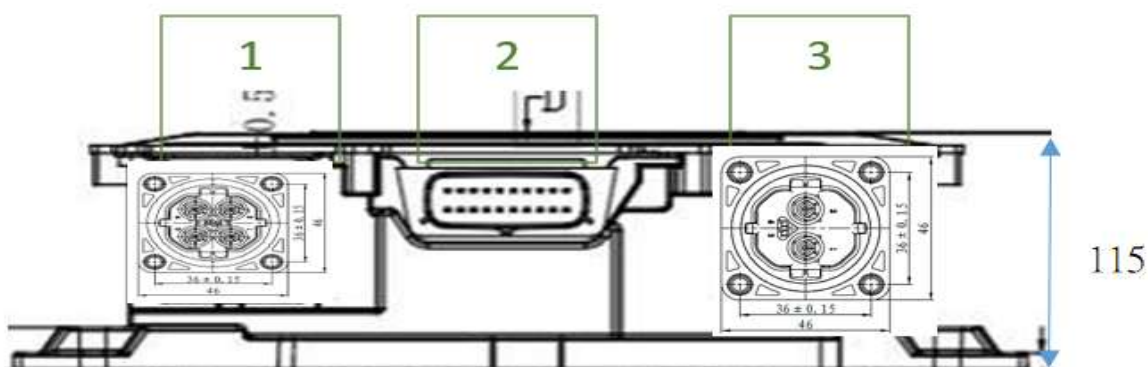
Items	Descriptions		Remark
1.	Operating Temperature(°C)	-40~65	The power will be derated when the temperature exceeds 65°C



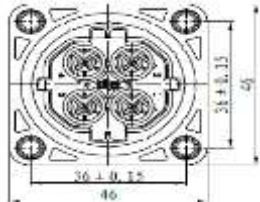
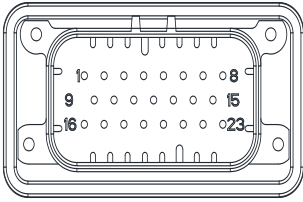
2.	Storage Temperature(°C)	-40~95	
3.	relative humidity(%RH)	5~95	No condensation, no frost
4.	Protection level	IP67	
5.	Cooling method	Fan	
6.	Vibration level	ISO 16750-3,2012 (E)	After X,Y,Z three directions of sweep frequency vibration testing, no damage for parts , no loose for fastening piece
7.	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/UVLP, output OVP/UVLP, 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℃, the output power is reduced; when the temperature exceeds 95℃, the circuit is disconnected; the charger resumes output power when the charging temperature returns to below 85℃.	
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



Connector Table

No.	Model NO.	Definition		
1	REL-Z4PAH-4-A 25A 4MM2 CABLE KEY A HVIL: WITH	1	Mains Phase L1_3 WIRES	AC INPUT 
		2	Mains EARTH	
		3	Mains Phase L2 or NEUTRAL	
		4	N/C	
		A	INTERLOCK+	
		B	INTERLOCK-	
		Brand or Maker		Recodeal
		PLUG Model No.		REL-T4PAH-4-A
2	1-776228-1	1	K31-Batt Neg	
		2	K30-Batt Pos	
		3	CAN L	
		4	CAN H	
		5	CAN Shield	
		6	N/A	
		7	HVIL+	
		8	HVIL-	
		9	N/A	
		10	CAN2L(inside can for debug)	
		9-15	N/A	
		16	K15- Ignition	
		17	CAN2H(inside can for debug)	
		18-23	N/A	
		Factory		TE
		Cable side		770680-1
3	REL-Z2PAH-10-A 60A 10MM2 CABLE KEY A HVIL: WITH	1	DC Output +	
		2	DC Output -	
		3	INTERLOCK+	
		4	INTERLOCK-	
		Brand or Maker		Recodeal
		PLUG Model No.		REL-T2PAH-10-A