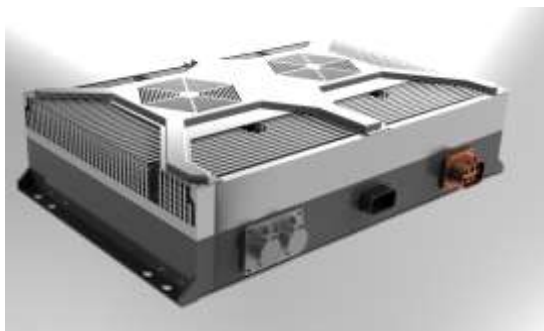




Input 380Vac Output 400Vdc 10KW On Board Charger Fan
Model No. ATRC10K-40027FID



Model No.:
ATRC10K-40027FID for IEC Charging Mode and with
HMI for software control

Features

- 1 Output Power(KW): 10
- 2 Input Voltage Range(VAC): 156-456 (3 Phase 5 Wire)
Rated Input Voltage(VAC): 380
- 3 Output Voltage Range(VDC): 324-450
- 4 Rated Output Voltage(VDC): 400
- 5 Output Current Range(A): 0 ~ 27
- 6 Output Current Max(A): 27
- 7 Dimensions(mm): 548x342x127
- 8 Weight(KG): 27 ±0.5
- 9 Cooling System: Fan
- 10 IP Rating: IP67
- 11 CAN compatibility: CAN2.0 B SAE J1939
- 12 Enclosure: Aluminum alloy
- 13 Pre-charge & Isolated: Supported
- 14 Software: Digital software design
- 15 Online Upgrade & Fault Diagnosis: Supported

Specification

Description		Remark
Input Voltage Range (VAC)	156-456 (3 Phase 5 Wire)	
Rated Input Voltage (VAC)	380	
Output Voltage Range(VDC)	324~450	Adjusted as per requirement
Rated Output Voltage(VDC)	400	Adjusted as per requirement
Output current Range (A)	0 ~ 27	
Output current(A) (Max)	27	
Efficiency	≥94%	Rated input voltage, load > 25%
Output Voltage Accuracy	±1%	
Communication Method	CAN 2.0 BUS SAE J1939	Baud rate (Kbps): 125/250/500 for optional
Pre-charge circuit	Built in	
Rated Input Voltage Frequency(Hz)	50 / 60	

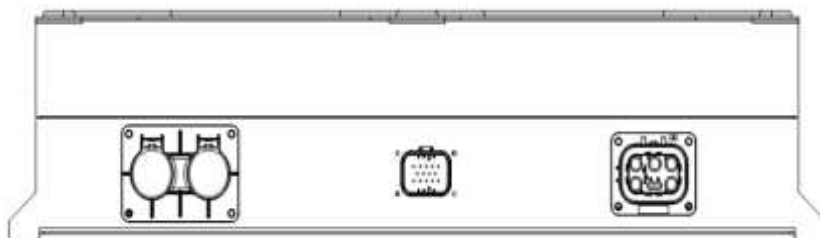
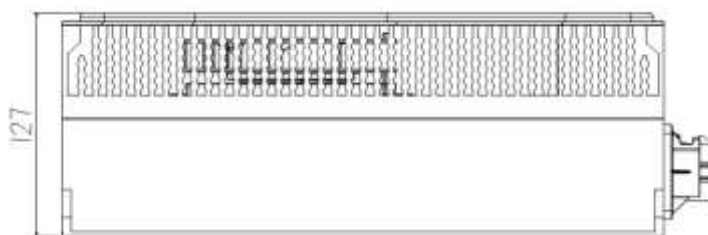
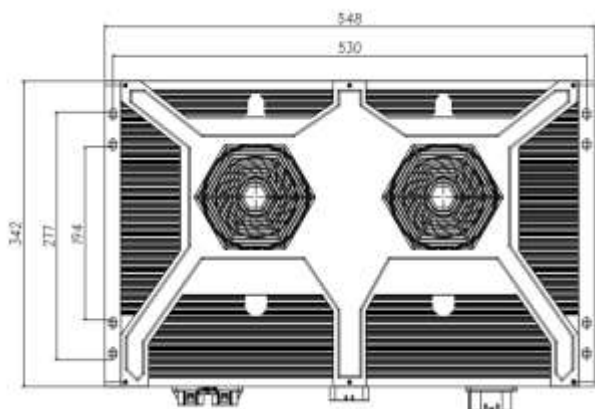
Operating Environment

The operating environment conditions of this assembly are as follows:

Items	Descriptions		Remark
1.	Operating Temperature(°C)	-40~85	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.	Altitude(M)Max	3000	GB/T16935.1-2008
10.	Fall	Wiring harness according to QC/T417.1-2001 Housing according to GB/T 2423.8-1995	Appearance, structure and performance are normal
11.	Protection Characteristics	Input OVP/UVF, output OVP/UVF, input anti-reverse connection, output short circuit protection, OCP, OTP	
12.	Electromagnetic immunity	GB/T17619-1998 chap4	
13.	Electromagnetic disturbance	GB18655-2002chap 12 chap14	



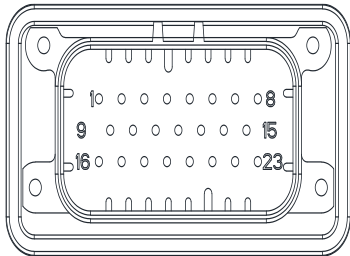
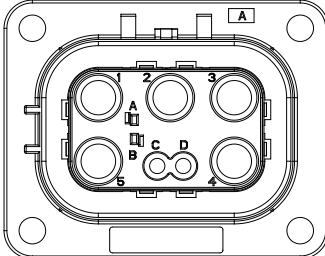
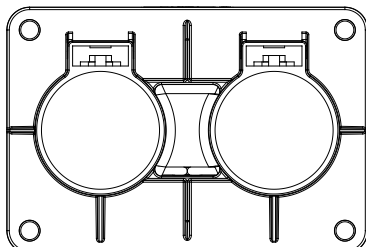


Connector Model: Adjustable as per requirement

Connector Model

Position	Function	Brand	Socket Model	Plug Model
1	Signal control	TE	1-776228-1	Housing:770680-1 Terminal:770520-1
2	HV AC input	Baleconnector	BHL10-E401X-S6	BHL18-E40X1-S6
3	Output +		PRC20-301-10M10	PRC18X-300-70
4	Output -			PRC18Y-300-70

Interface Definition

Signal Control(1)		HV AC Input(2)		Output Positive(3)	
					
1	CANH	1	L1	X	Output +
2	CANL	2	L2		
3	12V+ Enable(out)	3	L3	Y	Output -
4	GND	4	N		
5	CC	5	PE		
6	CP				
7	WAKEUP IN				
8	BAT+				
9	BAT-				