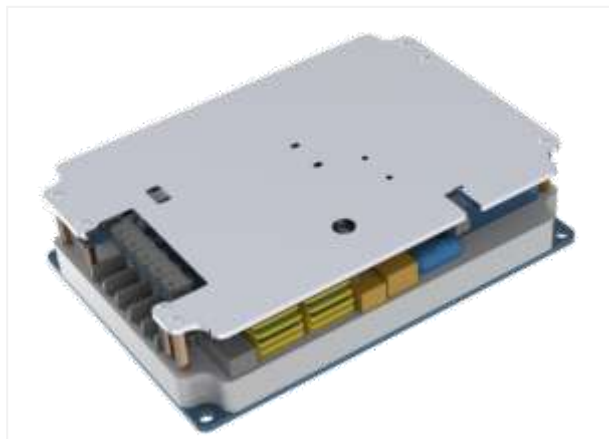




Input 90-265Vac Output 108Vdc 30A 3.3KW On Board Charger Module

Model No. : ATRC3K3-10830M-S

Model No. : ATRC3K3-10830M-I



MN: AC03310830

A. Model No. : ATRC3K3-10830M-S

Charging Mode: SAE

B. Model No. : ATRC3K3-10830M-I

Charging Mode: IEC

Features

- 1 Output Power(KW): 3.3
- 2 Input Voltage Range(VAC): 90~265
- 3 Output Voltage Range(VDC): 72 ~ 110
- 4 Rated Output Voltage(VDC): 108
- 5 Output Current Range(A): 0~ 30
- 6 Output Current Max(A): 30
- 7 Dimensions(mm): 200x140x50
- 8 Weight(KG): 2.5 ±0.5
- 9 Communication: CAN2.0 B SAE J1939
- 10 Enclosure: Aluminum alloy
- 11 Pre-charge & Isolated: Supported
- 12 Software: Digital software design
- 13 Online Upgrade & Fault Diagnosis: Supported

Other features:

Items	Description	
1	CAN Communication	SUPPORTED
2	CAN Communication Isolation	SUPPORTED
3	485 Communication	NON-SUPPORTED
4	TTL Serial Communication	NON-SUPPORTED
5	CC Detection and CC Wake-up	SUPPORTED
6	CP Detection and CP Wake-up	SUPPORTED
7	Dual 12V 0.3A Fan Driver	SUPPORTED
8	12V 3A Auxiliary Power Output	SUPPORTED
9	Dual-Color Common Cathode LED Driver	SUPPORTED
10	Switch Signal (On/Off) Detection	NON-SUPPORTED
11	GB/T27930 Pile End Protocol Support	NON-SUPPORTED



Specification

Description		Remark
Input		
Input Voltage Range (VAC)	90 ~ 265 1 Phase	
Rated Input Voltage (VAC)	220	Can be adjusted as per requirement
Rated Input Voltage frequency(Hz)	50	
Input frequency range(Hz)	45~65	
Starting surge current (A)	≤ 16	
Input power factor	≥ 0.99 (@220Vin, Pomax)	
Output		
Output Voltage Range(VDC)	72 ~ 110	Adjusted as per requirement
Rated Output Voltage(VDC)	108	Adjusted as per requirement
Output current Range(A)	0 ~ 30	
Output current(A) (Max)	30	
Efficiency	$\geq 93\%$	Rated input voltage, load $> 30\%$
Output Voltage Accuracy	$\pm 1\%$	
Communication Method	CAN BUS 2.0 B	SAE J1939

Operating Environment

The operating environment conditions of this assembly are as follows:

Items	Descriptions		Remark
1.	Operating Temperature($^{\circ}\text{C}$)	-40~85	The power will be derated when the temperature exceeds 65°C
2.	Storage Temperature($^{\circ}\text{C}$)	-40~95	
3.	relative humidity(%RH)	5~95	No condensation, no frost
4.	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
5.	Noise level(dB)	< 60	
6.	Salt spray level	GB/T 2423.17	
7.	Altitude(M)Max	3000	GB/T16935.1-2008
8.	Fall	Wiring harness according to QC/T417.1-2001 Housing according to GB/T 2423.8-1995	Appearance, structure and performance are normal
9.	Protection Characteristics	Input OVP/UVLP, output OVP/UVLP, input anti-reverse connection, output short circuit protection, OCP, OTP	
10.	Electromagnetic immunity	GB/T17619-1998 chap4	
11.	Electromagnetic disturbance	GB18655-2002chap 12 chap14	



Module Dimensions(mm)

