

## 22KW EV ON-BOARD CHARGER



### Features

- Universal AC input range
- Input/output protections
- Intelligent charging modes
- Customized CAN communication optional
- 250/500kbs communication rate optional
- UDS bootloader and diagnostic optional
- IP67 enclosure, liquid cooled

### Main Specifications

Part Number		Input Voltage	Output Voltage	Output Current	Ripple & Noise (mVp-p)
CAD222DF-740A	OBC	323-437Vac 187-253Vac	440-740Vdc	0-36A (3 phase) 0-12A (1 phase)	≤±4%

### Electrical Specifications

These specifications are valid over the converter's full ranges of input voltage output voltage and current, and operating temperature unless noted otherwise.

### AC Input Specifications

Input Voltage single phase	187-253VAC
Input Voltage three phase	323-437VAC
Max input current three phase	34A
Max input current single phase	32A
Power Factor	0.99

### DC Output Specifications

HV Output Voltage single phase	440-740VDC
HV Output Voltage three phase	440-740VDC
LV Output	24VDC 2A
Max charging current three phase	36A
Max charging current single phase	12A
Max charging power three phase	20KW
Max charging power single phase	6.6KW
Efficiency	95%

### Mechanical Data/Cooling System

Housing material	Aluminum
Weight	25kg

Housing volume	12L
IP protection rate	IP 6K9K
Cooling	Liquid-cooled

### Safety

Input over voltage protection	Yes
Input under voltage protection	Yes
Output over voltage protection	Yes
Output under voltage protection	Yes
Output over current protection	Yes
Output short circuit protection	Yes

### Input Connector Description

PIN NO.	Name	Model: HV2-RF024-4ALA-C11-0	Mating Connector: HV2-PS024-4ALA-C11
		Supplier: Ebusbar	
1	L1		
2	L2		
3	N		
4	L3		

### High Voltage Output Connector Description

PIN NO.	Name	Model: C10516N1-02-3-1	Mating Connector: C10516N1-02-1-2
		Supplier: Jonhon	
1	Out +		
2	Out -		

**Signal Connector Description**

PIN NO.	Name	Model: 1564407, 2x8P	Mating Connector: 1564337
		Supplier: TE	
1	CAN H		
2	CAN L		
3	CAN PE		
4	CAN H1		
5	TEMP S1		
6	TEMP S2		
7	+24V(CD)		
8	+24V		
9	CC OUTPUT		
10	CP		
11	CC		
12	CHGND		
13	TEMP S3		
14	TEMP N		
15	CAN L1		
16	-24V		

**Mechanical Parameters (unit: mm)**

Dimension (LxWxH): 466x325x155mm

