



**CURRENTWAYS**<sup>®</sup>  
TECHNOLOGIES

# *CWUBIC*

One Hardware, One Design

Many Solutions



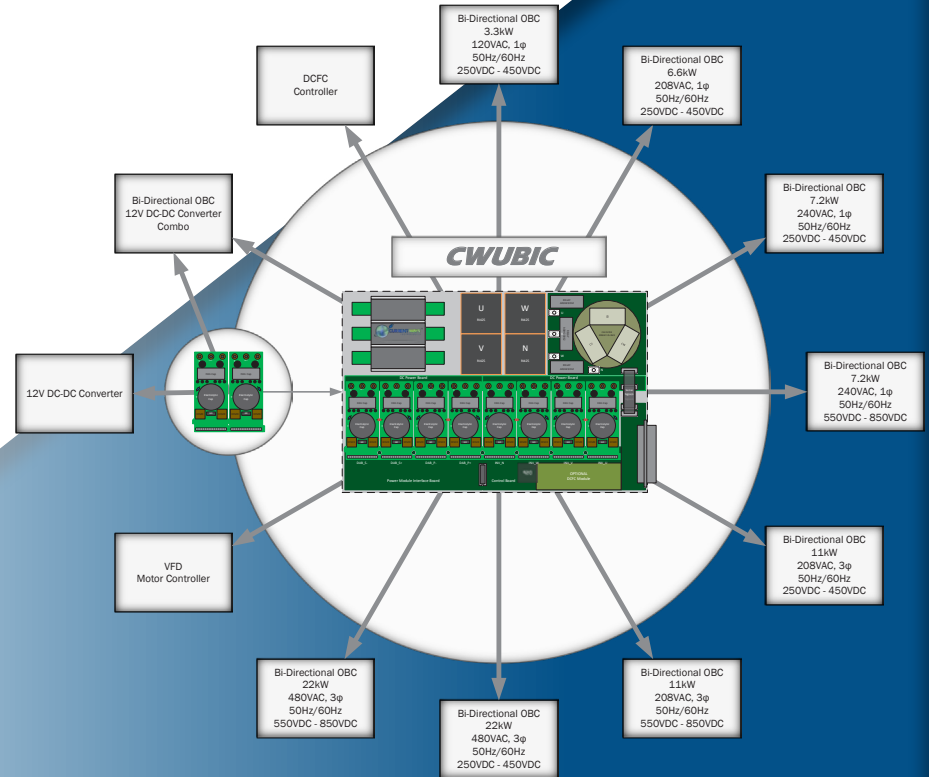
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**plugin**  
TO THE POWER

# CWUBIC

## Standard Onboard Charger Product Line

Current  
Ways  
Universal  
Bidirectional  
Isolated  
Converter



7.7 kW Single Phase to 33 kW Three Phase Offering AC Voltage In 90 - 530V / DC Voltage Out 250 - 850V

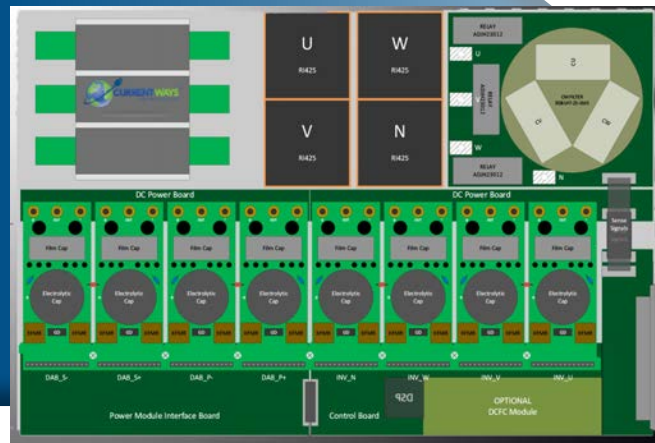
PRODUCT	KW - RATING	VOLTAGE INPUT	VOLTAGE OUTPUT	AC LINE CONNECT	PACKAGE
CWOBA0721Q	7.7	120/240V	250V - 425V	1 - PHASE	
CWOBA1121Q	11	120/240V	250V - 425V	1 - PHASE	
CWOBA1521Q	15	120/240V	250V - 425V	1 - PHASE	
CWOBA1921Q	19.2	120/240V	250V - 425V	1 - PHASE	
CWOBA0731Q	7.7	120/240V	550V - 850V	1 - PHASE	
CWOBA1131Q	11	120/240V	550V - 850V	1 - PHASE	
CWOBA1531Q	15	120/240V	550V - 850V	1 - PHASE	
CWOBA1931Q	19.2	120/240V	550V - 850V	1 - PHASE	
CWOBA1123Q	11	400	250V - 425V	3-PHASE	
CWOBA2223Q	22	400	250V - 425V	3-PHASE	
CWOBA2523Q	33	480	250V - 425V	3-PHASE	
CWOBA1133Q	11	400	550V - 850V	3-PHASE	
CWOBA2233Q	22	400	550V - 850V	3-PHASE	
CWOBA3333Q	33	480	550V - 850V	3-PHASE	

# CWUBIC

Custom Power Electronics Solutions

## Modular Power Electronics Concept

- Based on the Common Technology Platform
- Up to 8 SiC based half bridge modules
- Modular magnetics - Configurable to many designs
- Customizable front connector face



Onboard Charger Configuration

### Aux. & Traction Inverters

- 3 x Single Phase Aux. Inverter
- Single Three Phase Traction Inverter
- Dual Three Phase Traction Inverter
- Multi Phase Grid Tie Inverters

### DC/DC Converters

- 400V to 12V DC/DC Converter
- 800V to 24V DC/DC Converter
- BI-Directional DC/DC Converters
- Multi Output DC/DC Converters

### Custom Combinations

- Combo OBC + DC/DC Converter
- DC/DC + Single Phase Aux. Inverter
- Traction Inverter + DC/DC Converter

❖ One Hardware

❖ One Design

# Many Solutions

## Applications

- ❖ On-board Charging
- ❖ Vehicle to Grid
- ❖ Traction Inverter
- ❖ Combo OBC+DC/DC
- ❖ Micro-Grid
- ❖ VFD Motor Control
- ❖ UPS Application
- ❖ DC Fast Charging

## Options

- DCFC
- Real-time Clock
- AC Line PLC
- Parallel AC or DC
- 12V to 24V AUX Output (Up to 3kW)

## Features

- ✓ Bidirectional
- ✓ Isolated
- ✓ SiC Technology
- ✓ SAE J-1772 - IEC 61851
- ✓ CCS / CHAdeMO
- ✓ 12V-24V Operation
- ✓ Reverse Polarity Protected
- ✓ CAN Wakeup
- ✓ 4-Wire Including Neutral
- ✓ AC Over-Voltage Lockout



Specifications subject to change without prior notice

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