

Professional new energy
vehicle power control system and
power management system supplier



Tel: +86-755-2738 5188 Fax: +86-755-2738 9188
E-mail: dugy@foripower.com Web: www.foripower.com
Shenzhen Foripower Electric Co., Ltd.

Malaysia Manufacturing Center
Jalan Cyber 5, Kawasan Perindustrian Senai Fasa III, Senai, Johor, Malaysia
Shenzhen Manufacturing Center
Building B, Dejin 2nd Industrial Park, Fuyuan 1st road, Futang, BaoAn, Shenzhen, China
Hunan Manufacturing Center
Building 15 Changchong Industrial Park, Nanling Avenue, Beihu, Chenzhou, China

FORIPOWER
PCU/DC-DC/ACC/EIS/DCL
For Heavy Duty Vehicles



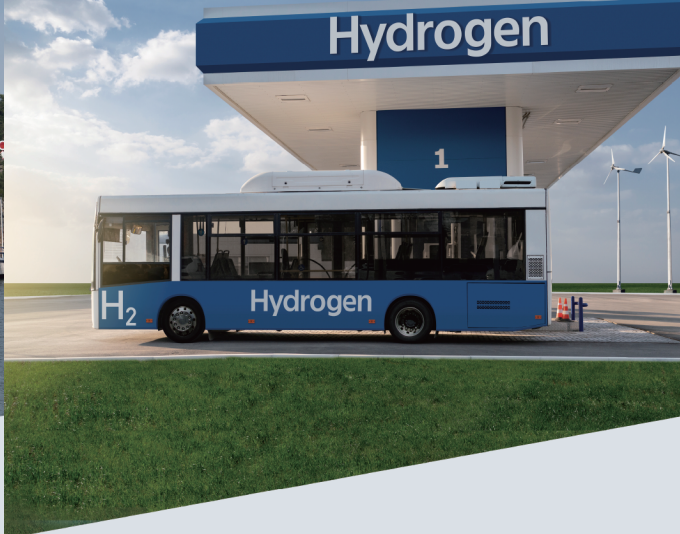
DC-DC: 30kW-450kW
ACC: 15kW-75kW
DCL: 3kW, 4.5kW, 6kW, 9kW, 12kW

FORIPOWER
PCU/DC-DC/ACC/EIS/DCL
For Marine



DC-DC: 30kW-450kW
ACC: 15kW-75kW
DCL: 3kW, 4.5kW, 6kW, 9kW, 12kW

FORIPOWER
PCU/DC-DC/ACC/EIS/DCL
For Bus



DC-DC: 30kW-450kW
ACC: 15kW-75kW
DCL: 3kW, 4.5kW, 6kW, 9kW, 12kW

FORIPOWER
PCU/DC-DC/ACC/EIS/DCL
For Train



DC-DC: 30kW-450kW
ACC: 15kW-75kW
DCL: 3kW, 4.5kW, 6kW, 9kW, 12kW

FORIPOWER
Electrolyzer Power Supply
For Hydrogen Production



Electrolyzer Power Supply: 1MW-5MW

FORIPOWER
DC-DC Converters
For EV



DCL: 3kW, 4.5kW, 6kW, 9kW, 12kW

FORIPOWER
PCS for Energy Storage System
and H₂ Stationary Power Generation



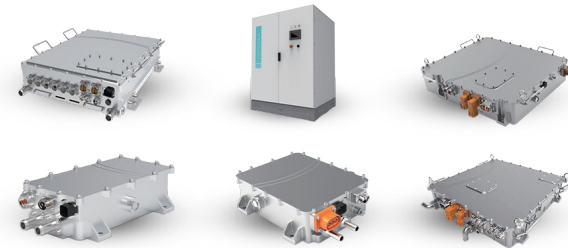
Single cabinet:
80kw~1.6MW

Power module:
80kW/160kW module

Partner



FORIPOWER



About us

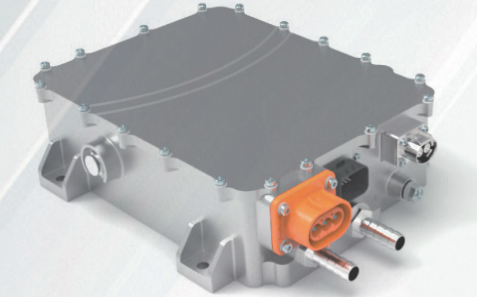
Foripower Introduction

The Professional Company of Power Electronic Product for New Energy Vehicles

The senior management team in Foripower has more than 10 years experience in power electronic R&D and manufacture. Foripower has mature R&D, procurement, production, quality control and after-sales service system. Our main products include fuel cell DC-DC converter (isolated & non-isolated), fuel cell integrated system PCU, fuel cell air compressor controller, galvanic isolated DC-DC converter, electrolyzer power supply and DC electronic load. Foripower is the qualified supplier of some world famous companies.

As the undertaker of sub-project in national key R&D plan for new energy vehicles in Science and Technology Ministry, the feature and reliability of Foripower's high power DC-DC converter, fuel cell air compressor controller, integrated PCU is in the leading position in the world. We have developed business partners in more than 20 countries, including Europe, USA, Japan and South Korea.

Relying on the advantage of power electronics talent cluster and industrial cluster in the Pearl River Delta region, Foripower is committed to becoming technology leading company in Fuel Cell Balance of Plant(BOP) systems.



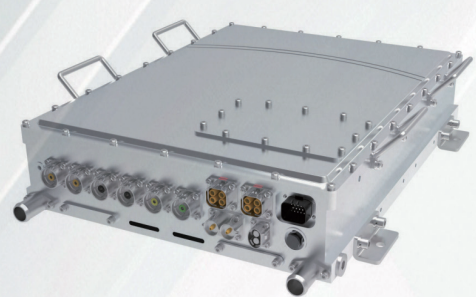
Fuel Cell Air Compressor Controller

01 PRODUCT DESCRIPTION

The FRA series ultra-high-speed motor controller is specially developed for air compressor motor in fuel cell system. It has high control accuracy, small harmonic current, quick response, and perfect protection function.

02 TECHNICAL SPECIFICATIONS

Motor Type	PMSM
DC Input Voltage Range	250~850V
Nominal Output Power	15~75KW
Output Frequency	0~3500Hz
Maxinum Efficiency	>98%
Control Method	High-Performance Speed Sensorless Vector Control
EMC Standard	CISPR 25 CLASS 3
Ambient Temperature for Operation	-40~85 ℃
Communication	CAN 2.0B 250kpbs or 500kpbs



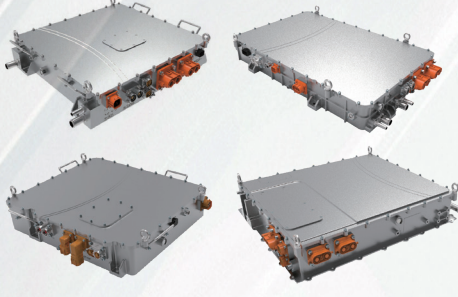
Fuel Cell Galvanic Isolated DC-DC Converter

01 PRODUCT DESCRIPTION

The FRF60 series galvanic isolated DC-DC converter is designed by Foripower for fuel cell market which can meet the stringent requirements of various fuel cell applications. The advanced topology and perfect functional design have reached the leading level of similar products in the industry.

02 TECHNICAL SPECIFICATIONS

Application	FCEV power train, marine, energy storage, stationary power generation
Main Topology	Isolated
Input Voltage Range	100~880VDC
Input Current Range	0~600 A(>600A can be customized design)
Maximum Efficiency	>98.5%
Output Voltage Range	200V~900V(>900V can be customized design up to 1850V)
Main Output Current	350 A
Input Current Control Accuracy	±1.0% @ current: 100A, ±1.0A @ currents below 100A
Voltage Accuracy	<1%
Control Mode	Input voltage limiting, constant current control
Communication	CAN 2.0B
EMC Standard	CISPR 25 CLASS 3



Fuel Cell Integrated Power Control Unit PCU

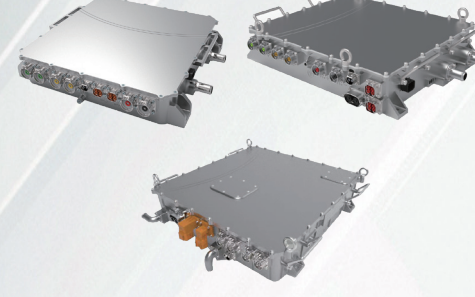
01 PRODUCT DESCRIPTION

The FRC series X-in-1 fuel cell PCU integrates fuel cell DC-DC converter (DCF), EIS module(Electrochemical Impedance Spectroscopy), 24V output DC-DC converter, high-speed air compressor controller (ACC) and high-voltage power distribution unit (PDU), which greatly saves the space for the high-voltage electrical system and simplifies the design and installation of the power system.

Among them, the FRC4 series integrate boost DCF, the FRC5 series integrates buck-boost DCF.

02 TECHNICAL SPECIFICATIONS

Technology Platform	Non-isolated
Input Power Range	60~450kW
Input Voltage Range	30~900V
Output Voltage Range	250~900V
Working Modes	Input current control/output voltage control /stack freeze start mode/open circuit voltage limit mode
Maximum Efficiency	>99%
Motor Speed Range	0-210 krpm (2-poles motor)
Output Frequency	0~3500Hz
EIS Frequency Range	3Hz~2kHz
Cooling	Liquid cooling (Inlet temperature-40℃~+65℃)
Communication	CAN 2.0B
EMC Standard	CISPR 25 CLASS 3



Fuel Cell DC-DC Converter

01 PRODUCT DESCRIPTION

The FRF series DC-DC converter is specially developed for the FCEV (fuel cell electric vehicle) market which can meet the stringent requirements of various FCEVs. FRF40 series are boost converter, FRF50 series are buck-boost converter. With advanced topology and perfect functional design, our products reach the leading level of similar products in this industry.

02 TECHNICAL SPECIFICATIONS

Technology Platform	Non-isolated
Output Current Range	0~350A(FRF40), 0~600A(FRF50)
Input Current Range	0~1100A(>1100A can be customized design)
Maximum Efficiency	>99%
Input Voltage Range	30 V~900V
Communication	CAN2.0B, 250kpbs/500kpbs/1 Mbps
Ambient Temperature for Operation	-40℃~85℃
Cooling	Liquid cooling
Degrees of Protection	IP67/IP6K9K



Electrolyzer Power Supply

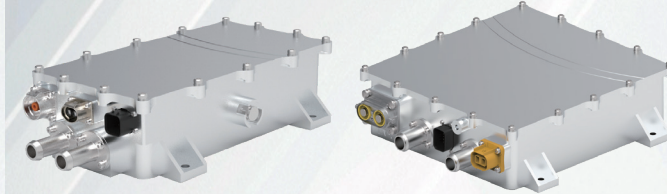
01 PRODUCT DESCRIPTION

The LyzPower® series electrolyze power supply, which is used as the power supply for hydrogen production in electrolyzer.

Among them, LyzPower® xJ series is AC bus input electrolyzer power supply, LyzPower® xZ series is DC input and can be used as electrolyzer power supply for photovoltaic off-grid hydrogen production. The SiC module is adopted, which greatly improves the efficiency and power density, reducing the product volume.

02 TECHNICAL SPECIFICATIONS

Input Voltage Type	AC or DC
Input Voltage Range	380VAC, 480VAC, 10KVAC or 35KVAC (with HV transformer) 200~1800VDC
Output Voltage Range	100~900VDC
Output Current Range	0~16000A
Maximum System Efficiency	>98%
Cooling	Liquid cooling/Air cooling
Working Temperature	-30℃~+55℃
Communication Method	CAN /RS 485/ Modbus



Galvanic Isolated DC-DC Converter

01 PRODUCT DESCRIPTION

The FRL series DC-DC converter is specially developed for automotive low-voltage 12V and 24V power supply market which can meet the electrical automotive requirement. The advanced topology and perfect function design has reached the leading level of similar products in the industry.

This converter can meet the application requirement of 200~820VDC input voltage, 12V3kW, 24V3/6/9/12kW. We can provide 12V3kW, 24V3/6kW modules without housing.

02 TECHNICAL SPECIFICATIONS

Output Current Range	0~120A(3KW), 0~250A(6KW), 0~500A(12KW)
Output Voltage Range	9~16V/18~32V
Maximum Efficiency	96%
Input Voltage Range	200 V~820V
Communication	CAN2.0B, 250kpbs/500kpbs/1 Mbps
Ambient Temperature for Operation	-40℃~85℃
Cooling	Liquid cooling
Degrees of Protection	IP67/IP6K9K



PCS for Energy Storage System and H₂ Stationary Power Generation

01 PRODUCT DESCRIPTION

Foripower PCS is designed for high-performance bidirectional power conversion in energy storage systems, supporting lithium or VRB batteries. We can also provide galvanic isolated DC-AC inverter to H₂ stationary power generation applications. It offers flexible configuration with galvanic isolated or non-isolated versions, utilizing advanced SiC power components to achieve high efficiency and power density.

The product series for grid-tie and modular design ranging from 80kW to 1.6MW per cabinet and support for N+X redundancy, the system ensures high availability and enables quick maintenance.

02 TECHNICAL SPECIFICATIONS

AC Side	AC Three-Phase + N
AC Voltage Range	380/400/480V AC, 50/60Hz
DC Voltage Range	Adjustable based on battery voltage
DC Current Range	Up to 600A per module (customizable)
Maximum System Efficiency	>98%
Operating Temperature	-25℃~+55℃
Cooling	Liquid / Air-cooling
Communication	CAN