Arco Technologies Inc

Arco Technologies

Advanced Energy Systems

Powering the future

DATA SHEET

ALFA

Fuel cell modules for transport and naval

MODULES

A wide range of configurations, from 20 kW to Megawatts

DIRECTLINK ™

HYDROREC ™

Typical application areas

The FS-360 fuel cell stack is integrated into modular systems to power a diverse range of vehicles, including city buses, trucks, yachts, and light rail vehicles. These configurations span from 20 kW to Megawatt-scale, offering versatile solutions to meet the needs of a broad portfolio of applications

Alfa advantages

- Reliable Durability: 20+ years of development for increased reliability, extending lifetime to 25,000 hours.
- Dynamic Performance: Offers fast response akin to large diesel engines.
- Modular Efficiency: Scalable for megawatt-level configurations.
- Low Maintenance: Minimal moving parts for easy, long-lasting maintenance.
- Safety Assurance: Compliant with stringent safety standards.
- Cost-Effective: Low total cost of ownership through optimization.
- Space Efficiency: Modular design maximizes vessel space.
- Remote Monitoring: Equipped with remote diagnostics.
- Naval Compliance: Engineered for maritime regulations and harsh environments.
- Custom Solutions: Customized solutions and support ensure customer success throughout the entire system design and integration process.

ALFA Electrical Specification	
Stack Voltage	1 – 0,2 V cell
Stack Current	0 – 640 A
CVM Reading Ranges	-0,1 to 1 V

ALFA Marine Electrical Specification	
Stack Voltage	1 – 0,2 V cell
Stack Current	1P Config. 0-320 A 2P Config. 0-640 A
CVM Reading Ranges	-0,1 to 1 V

ALFA model	Number of Cells	Nominal power kW
ALFA-216	216	50
ALFA-432	432	100
ALFA-648	648	150
ALFA-864	864	200

ALFA Marine model	Number of Cells	Nominal power kW	Configuration
ALFA Marine-311	311	60	1P311S
ALFA Marine-622	622	120	1P622S
ALFA Marine-1244	1244	150240	2P622S

Arco Technologies general description

Arco Technologies is at the forefront of the clean energy sector and in promoting a low-carbon transition through its proton exchange membrane (PEM) cells and, more recently, anion exchange membrane (AEM) electrolyzers. With over 20 years of experience in hydrogen-related electrochemical technologies, we have developed expertise in all aspects, from electrodes to stacks and system equipment, making us experts in system integration as well. In addition to offering a portfolio of standardized products, we develop custom solutions for clients and provide support during the integration phase.

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