

| Power Range: 5 kW~200 kW |

HTMFC Series



Single Module

Model	HTMFC U-5
Max Power	5 kW
Continuous Power	4 kW
Output Voltage	48V OR 560V DC
Power regulation	30~100%
Fuel	60% Methanol, 40% Deionized water
Fuel consumption	0.9L/kWh
Efficiency	46%
Operating Temp	-20°C ~+50°C
Operating Noise	<50dB(A)
Dimension	755 x 455 x 265mm
Weight	65kg



Supporting non-standard customization and split installation

Standard Integrated Cabinet Series		
Fuel Cell	CS-2	CS-3
Voltage	48V DC OR 560V DC	
Lithium Battery	10~20 kWh	10~40 kWh
Peak Power	10 kW	15 kW
Continuous Power	8 kW	12 kW
Operating Temp	-20°C ~+50°C	
Methanol Reserves	300L (About 353 kWh)	
Operating Noise	<45dB(A)	
Protection Degree	IP54	
Dimension (length, height, thickness)	1600x1200x1800mm	
Weight	~350kg	~420kg
System Configuration	Remote control module, supporting systems	

| Power Range: 25 W~300 W |

DMFC Series



	DMFC 25	DMFC 50	DMFC 130	DMFC 200	DMFC 300
Power	25W	50W	130W	200W	300W
Voltage	12V or 24V DC				
Weight	1.7kg	5kg	13kg	15kg	22kg
Dimension(mm)	178 X89 X 223	300 X110 X 280	350 X245 X 310	563 X242 X 285	680 X258 X 285
Operating Temp.	-40°C ~+50°C				
Operating Noise	~40 dB(A)				
Fuel consumption	0.85L (Methanol) / kWh				
Application Height	≤5000m				

Application

Direct methanol fuel cell(DMFC), characterized by small product size, light weight, easy operation, and short start-up time, are widely used for off grid energy and backup energy needs.



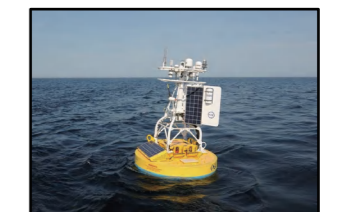
Yacht or Sailboat



Camping and RV



Off grid signal tower



Off grid ocean buoy

Application



GR63 -19m Electric Cruising Catamaran

The GR63 is designed for luxury offshore cruising, with full autonomy. Clean and innovative technologies give the GR63 a durable and eco-responsible new approach to cruising. The two 100kW electric motors are powered by different innovative solutions such as solar panels, vertical axis wind turbines and fuel cells.

Technical Specifications

LOA 19.2m	Motor 2 x 100kW
BOA 9.2m	Fuel cell 4 x 5kW
Draft 1.55m	Solar power 2 x 10kW
Displ. 30t	Wind power 2 x 8kW

| Power Range: 40 kW ~2000kW |

Methanol Reforming for Hydrogen Production



Low-temperature Hydrogen Fuel Cell



Reforming for Hydrogen Production System: 6~300Nm³/h



Hydrogen Fuel Cell System: 40~2000 kW



METHANOL & HYDROGEN FUEL CELL



Application



120TEU Container Vessel

Comparison Item	Energy Storage Lithium Battery	Methanol Reforming for Hydrogen Production + Low-temperature Hydrogen Fuel Cell
Power Supply	Limited by the battery capacity, use after charging	≥30000h
Route	Fixed route, battery needs to be replaced at a designated location	Non fixed route
Port Operation	Complicated, requiring replacement of energy storage batteries and transportation of energy storage batteries	Simple, port refueling or lifting of fixed capacity methanol tanks
Pollution	Significant risk of pollution during manufacturing and disposal processes	Discharge water and a small amount of carbon dioxide pollution-free
Quickly Expanded	no	yes

China

Phone: +86 13761574436
 Email: info@mehyfe.com
 Address: No. 4026, Hongye East Road, Anzhen Street, Xishan District Wuxi City, Jiangsu Province

Singapore

Phone: +65 9158 6221
 Email: sg@mehyfe.com
 Address: 42 Toh Guan Road East #03-102 Enterprise Hub 608586 Singapore

UAE

Phone: +971 4358 5266
 Email: uae@mehyfe.com
 Address: Office 2204 Fortune Executive Tower, Dubai, UAE



Wuxi Methanol and Hydrogen Future Energy Technology Co.,Ltd