

# Telecom Methanol Reformed Fuel Cell

Clean, silent and affordable power for  
off-grid, back-up and on-board application.



## Viabale Alternative

Designed to produce reliable power for supporting a wide range of commercial and industrial applications, such as telecom, task lighting, environmental monitoring and off-grid or clean energy need.

## Advantages



### Cost Saving

CHEM Methanol Fuel Cell yield customer saving and improved TCO.



### No Weather Condition

rated to operate at -40°C and in temperatures up to 46°C.



### Quiet Operation

Almost silent in operation providing an ideal power where noise pollution must be avoided.



### Emission Free

Good for the environment and can be used in sensitive areas / restricted spaces.

## Application AVAILABLE!

SCADA - Remote Fuel Cell Monitoring System

### Feature

Complete installation record and on-site network monitoring

Product application information classification function

Operation calculation model of commercialized power generation

Instant messaging alarm reporting system

Data analysis report of On-site operation

Quick App - BizMap & UserMap



Reliable



Ultra-Quiet



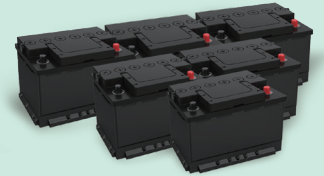
Low Emissions

  
**ME<sup>2</sup>POWER**  
FUEL CELL SYSTEMS

# Fuel Cell System Features Comparison

## Installation Area and Weight Comparison

Loading: 5kW and 40 hours of Telecom site



**Fuel Cell System**  
1.55m<sup>2</sup> (190kg/m<sup>2</sup>)

**Diesel Genset**  
2.1m<sup>2</sup> (380kg/m<sup>2</sup>)

**Lead-acid batteries**  
10m<sup>2</sup> (1800kg/m<sup>2</sup>)

## Noise Decibel Comparison

Measured at 1 meters



< 65 dB



> 85 dB

### Specification

Power Rating	5 kW	Fuel Tank	225 liters
Nominal Voltage	48 Vdc	Fuel Specification	HydroPlus (methanol-water)
Voltage Adjustable	46 ~ 56 Vdc	Location	Outdoor Rated
Size (WxDxH)	1.35m x 1.15m x 1.76m	Certifications	TUV; IEC 62282-3-100
Floor Area	1.55m <sup>2</sup>	Communications	SNMPv2c, Dry Contacts & Optional Wireless, Remote Monitoring
Weight (Product)	295 kg	Run Time	100 Hours @ 2 kW Output Power
Ambient Temperature	-5°C to +46°C Standard -40°C to +46°C Cold Weather	Standard 225 Liter Tank	40 Hours @ 5kW Output Power

## Actual Case



NEW DELHI, INDIA: VODAFONE



SOUTH AFRICA: VODACOM



OSAKA, JAPAN: DOCOMO

