

Marstech[®] SFW 24

SFW 24 offers you the world's only self-replenishing Fuel Cell system in a compact and robust format. The amount of on board solid-state hydrogen storage can be tailored for the backup duration required.

The **SFW 24** fuel cell system is designed to detect and respond to any interruption in your grid power. Critical equipment now has a more attractive and reliable on-demand UPS backup system.

The system is self-replenishing, using an integrated electrolyser to make Hydrogen and the integrated storage allows for extremely long autonomy, making it ideal for back-up power in remote and difficult to access sites.

- Extracts Hydrogen from Water
- Safe and reliable Solid-State Hydrogen Storage
- Robust industrial construction and metal casing
- Near-silent operation, can be used in confined spaces
- Data connection for remote monitoring
- Environmentally friendly, extremely efficient
- Long life-time, no self-discharge like batteries

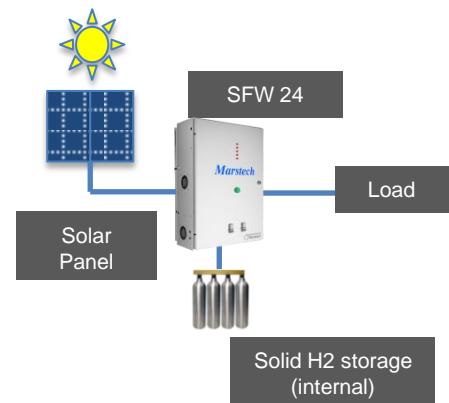
SYSTEM APPLICATIONS

- Elevator emergency UPS
- Emergency Lighting
- Security Systems
- Temporary Signage
- Airfield Lighting
- Remote monitoring



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SFW 24 can be combined with a solar system and small battery bank to provide extremely long autonomy in a very compact footprint. This allows the site to have a significantly smaller PV array and battery bank than would otherwise be required, whilst still enabling extended autonomy of backup power.



TECHNICAL SPECIFICATIONS

SYSTEM SPECIFICATIONS	SFW - 4H/8H/12H/24H
Nominal Operating Voltage Output	AC 220V / DC24V
Nominal Continuous Power Output	120W
Start Time after Installation	<1 Second
Nominal Backup Duration	4 hours (Standard) - 8/12/24 hours (Optional)
Input Power	220W
Input Voltage	220VAC / 24VDC
Hydrogen Storage	Metal Hydride
Hydrogen Generation	In-built Electrolyser
System Dimensions (WxDxH)	L450mm*W120mm*H420mm
Total System Weight (Kg)	30 kg
Enclosure Material	Galvanized steel plate, powder-coated
FUEL CELL SYSTEM	
Type	PEM
Coolant	Air
Efficiency	55% Peak Operating
Hydrogen Purity Delivered	99.99% pure hydrogen
Fuel Storage	Expandable Solid-State Metal Hydride
IN-BUILT REGENERATION	
Type of Electrolyser	PEM
Water Quality	De-ionized Water
Pressure Range	0-3MPa
Power Demand	220VAC@1A
OPERATING ENVIRONMENT	
Operating Temperature Range	Rated power maintained 5° to 50°C
Relative Humidity	0 to 95 % non-condensing
Shipping Freeze Exposure	Shipping exposure limit: -20°C
Usage	Indoor

Designed in compliance with IEC 62040-1

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