

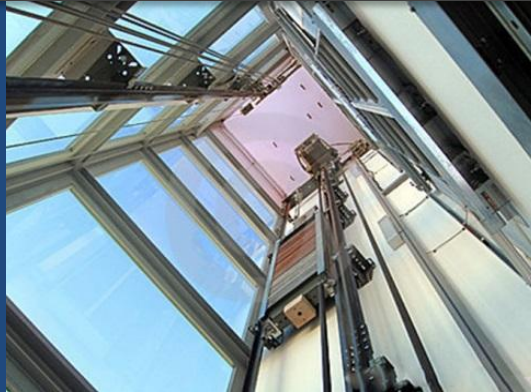
# ECOBOX RFC 120



## REGENERATIVE FUEL CELL UPS SYSTEM

### NEW UPS TECHNOLOGY

using a unique water-based,  
**SELF-REPLENISHING** fuel cell



**RFC 120** offers you the world's only self-replenishing Fuel Cell system in a compact and robust format. The amount of internal solid-state hydrogen storage can be tailored for the backup duration required.

### Longer lifetime, longer autonomy and lower total cost of ownership than extended duration battery UPS



The **RFC 120** 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

### MINIMAL MAINTENANCE IN RESIDENTIAL ELEVATOR UPS

### SYSTEM APPLICATIONS

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



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## REGENERATIVE FUEL CELL UPS SYSTEM

### TECHNICAL SPECIFICATIONS

SYSTEM SPECIFICATIONS	RFC 120 - 4H/8H/12H/24H/72H
Nominal Operating Voltage Output	AC 220V / DC24V / DC48V
Nominal Continuous Power Output	120W
Start Time after Installation	<1 Second
Nominal Backup Duration	4 hours (Standard) - 8/12/24/72 hours (Optional)
Input Power	220W
Input Voltage	220VAC / 24VDC / 48VDC
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	SPE
Water Quality	De-Ionized Water
Pressure Range	0-3MPa
Power Demand	220VAC@1A

### OPERATING ENVIRONMENT

Operating Temperature Range	5°C to 50°C
Relative Humidity	0 to 95 % non-condensing
Shipping Freeze Exposure	Shipping exposure limit: -20°C
Usage	Indoor / Outdoor

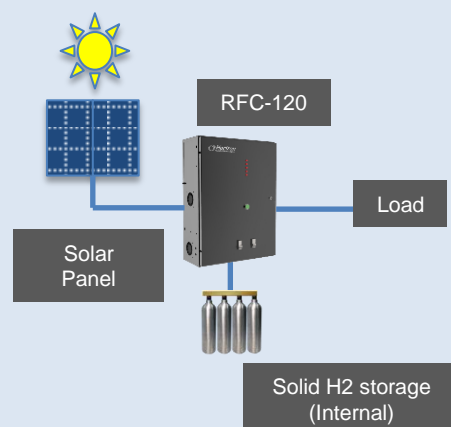
\* Specifications are subject to changes.



### OFF-GRID HYBRID SOLAR SET-UP



**RFC 120** 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.



*Lower Total Cost of Ownership than long-duration battery UPS systems - with ZERO emissions and no heavy metals!*