

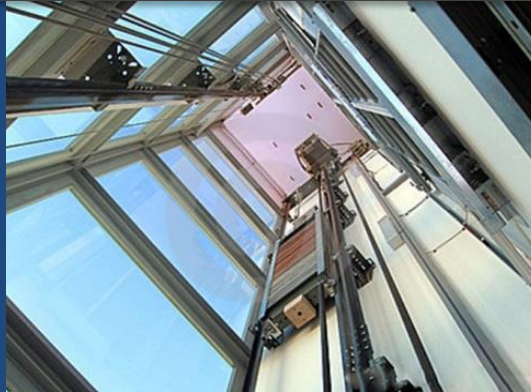
EFCOPS 120

REGENERATIVE FUEL CELL UPS SYSTEM



NEW UPS TECHNOLOGY

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



EFCOPS 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 **EFCOPS 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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TECHNICAL SPECIFICATIONS

SYSTEM SPECIFICATIONS	EFCOPS 120 - 4H
Nominal Operating Voltage Output	AC 220V / DC24V
Nominal Continuous Power Output	60W AC@220V & 50W DC@24V
Start Time after Installation	<1 Second
Nominal Backup Duration	4 hours (Standard)
Input Power	220W
Input Voltage	220VAC
Hydrogen Storage	Metal Hydride
Hydrogen Generation	In-built Electrolyser
System Dimensions (WxDxH)	500 x 230 x 800mm
Total System Weight	40 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	5°C to 50°C
Relative Humidity	0 to 95 % non-condensing
Shipping Freeze Exposure	Shipping exposure limit: -20°C
Usage	Indoor / Outdoor

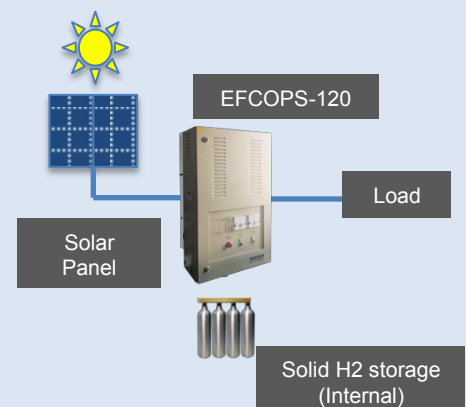
* Specifications are subject to changes.



OFF-GRID HYBRID SOLAR SET-UP



EFCOPS 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!