



**Off-Grid**  
clean. silent. independent.



**Backup Power**  
simple. economical. reliable.



**Mobility**  
compact. safe. silent.

# SIQENS Ecoport 800

## Energy for off-grid, backup, and mobility

The SIQENS Ecoport 800 is based on our patented fuel cell technology. As a fully automatic battery charger, it is easily integrated in any off-grid or backup energy system and powers batteries in mobile applications. Shortages in the supply of energy through photovoltaic and wind are covered reliably and batteries can be reduced in size. The available power always depends on the battery and can amount to several kW.

With liquid methanol, we are using a low-cost energy carrier that is globally available – completely independent of the expansion of the hydrogen infrastructure. Scalability, high resistance to ambient temperatures, and silent operation make the SIQENS Ecoport a versatile energy source.

## Independence from fossil fuels

We replace conventional generators with our patented fuel cell technology. The hydrogen required for energy generation is derived from liquid methanol. You and your customers benefit from easy handling, minimal maintenance requirements and low fuel consumption – while contributing directly to the global reduction of carbon emissions. Using renewable methanol allows for a carbon-neutral operation. With the SIQENS Ecoport 800 you are independent from fossil fuels. In short: a sustainable and economical solution that meets the challenges of the 21<sup>st</sup> century.

replacing  
diesel generators.  
with SIQENS  
fuel cells.

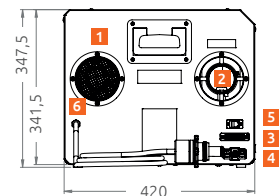


## Technical Data – SIQENS Ecoport 800

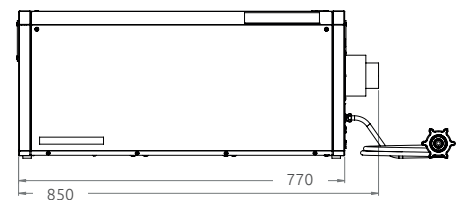
Ecoport 800		
Nominal voltage	24 V DC	48 V DC
Voltage range	21 – 30 V DC	40 - 46 V DC
Output power	300 - 600 W	
Charging capacity per day	max. 14 kWh	
Stack performance	500 W at 3,000 operating hours / 500 cycles	
Fuel	Methanol (IMPCA, > 99.85%)	
Consumption	0.6 l/kWh	
Power consumption in standby	< 0.1 W	
Electrical efficiency	38%	
Starting time	30 min (at 20°C)	
Noise level (at 7 m)	< 45 dB(A)	
Exhaust temperature	< 65°C	
Compatible batteries	all types (Li-NMC, LiFePo4, AGM, ...)	
Recommended battery capacity (min.)	4 kWh (net)	
Dimensions (L x H x W)	770 x 350 x 420 mm	
Weight (without packaging)	42 kg	
Protection class	IP 20	
Starting temperature	- 20°C / + 50°C	
Storage temperature	- 20°C / + 50°C	
Max. inclination during operation, transport & storage	20°	
Recommended altitude	tested up to 3,000 m	
Monitoring & Control	Online platform, onitoring package Control Panel	
Starting signal	automatically via battery voltage via dry-contact Control Panel / Online platform	

## Scale

SIQENS Ecoport 800



- 1 Supply air
- 2 Process exhaust air
- 3 External switching signal
- 4 Power output 24V
- 5 Ethernet socket (RJ 45)
- 6 Methanol supply line



All dimensions in mm

