



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 800 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 21st century.



Off-Grid

clean. silent. independent.



Backup Power

simple. economical. reliable.



Mobility

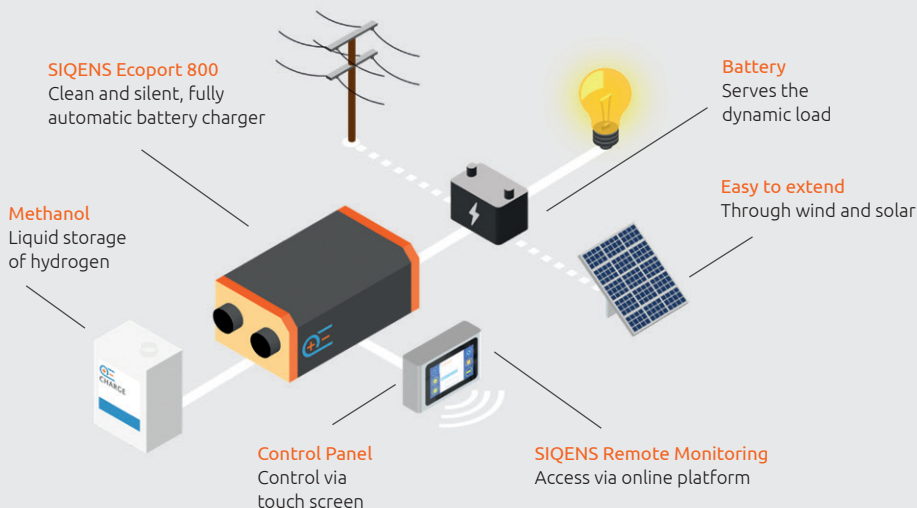
compact. safe. silent.

replacing
diesel generators.
with SIQENS
fuel cells.



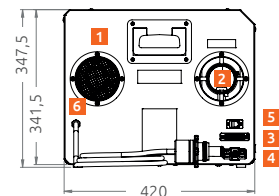
Technical Data – SIQENS Ecoport 800

SIQENS Ecoport 800		
Nominal voltage	24 V DC	
Voltage range	20 – 31 V DC	
Continuous power	Primary Power	500 W
	Backup Power	800 W
Charging capacity per day	Primary Power	12 kWh
	Backup Power	19.2 kWh
Charging current	Primary Power	20.8 A
	Backup Power	33.3 A
Stack performance	Primary Power	3,000 operating hours and 500 cycles
	Backup Power	500 operating hours and 50 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.)	2 kWh (net)	
Dimensions (L x W x H)	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	10°	
Recommended altitude	tested up to 2,700 m	
Interfaces	Socket for control panel (RJ45) Anderson Power SBE 80 Phoenix Contact FK 2.5/ 8-STF-5.08	
Monitoring & Control	Online platform (Win/Mac/iOS/Android) Control Panel Modbus / SNMP upon request	
Starting signal	automatically via battery voltage via dry-contact Control Panel / Online platform	

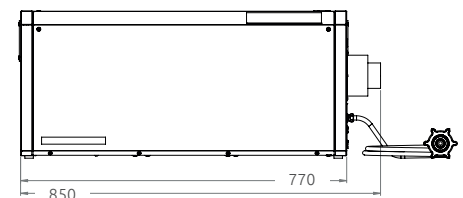


Dimensions

SIQENS Ecoport 800



- 1 Supply air
- 2 Process exhaust air
- 3 External switching signal
- 4 Power output 24V/48V
- 5 Control panel socket (RJ45)
- 6 Methanol supply line



All dimensions in mm