SIQENS Ecoport 800

Energy for off-grid, backup, and mobility

SIQENS

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Powering Excellence

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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.

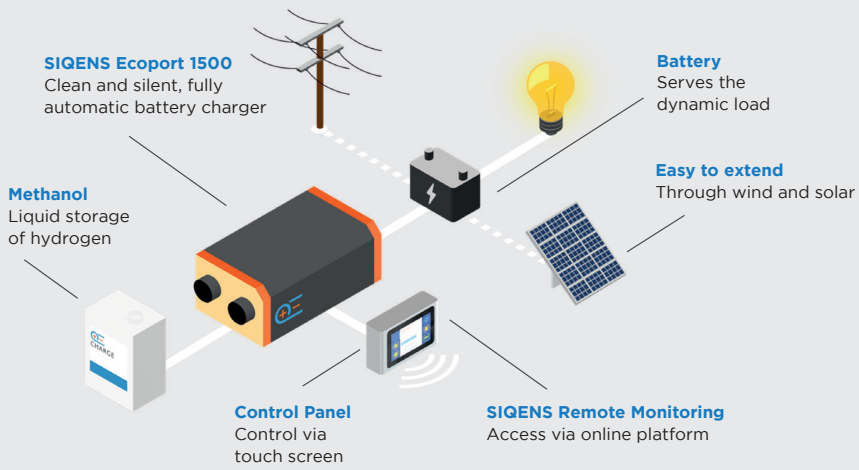
Independence from fossil fuels

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 carbonneutral 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.



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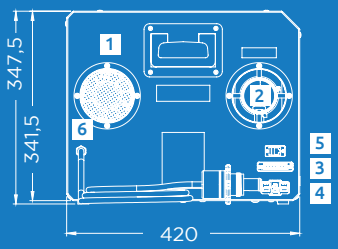
Technical Data

Nominal voltage		24 V DC	48 V DC
Voltage range		20 – 31 V DC	40 – 64 V DC
Continous power	Primary Power	500 W	
	Backup Power	800 W	
Charging capacity per day	Primary Power	12 kWh	
	Backup Power	20.8 A	10.4 A
Charging current	Primary Power	33.3 A	16.7 A
	Backup Power		
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 FKC 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 via dry-contact Control Panel / Online platform	

SOLAR IMPULSE EFFICIENT SOLUTION OCTOBER 2020

Dimensions



1 **Supply air**

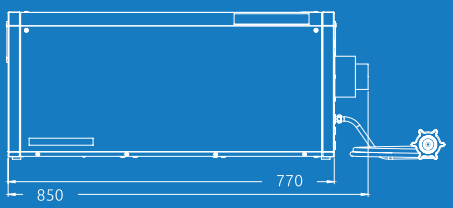
2 **Process exhaust air**

3 **External switching signal**

4 **Power output 24V / 48V**

5 **Control panel socket (RJ45)**

6 **Methanol supply line**



Technical specifications may be subject to change. 202208, Version 1.1

All dimensions in mm

A family owned Australian business

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Powering Excellence

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