



SIQENS Ecoport 1500

Energy for off-grid, backup, and mobility



SIQENS



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SIGENS Ecoport 1500



Energy for off-grid, backup, and mobility

The **SIGENS Ecoport 1500** 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 **SIGENS 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 carbonneutral operation. With the **SIGENS Ecoport 1500** you are independent from fossil fuels. In short: a sustainable and economical solution that meets the challenges of the 21st century.



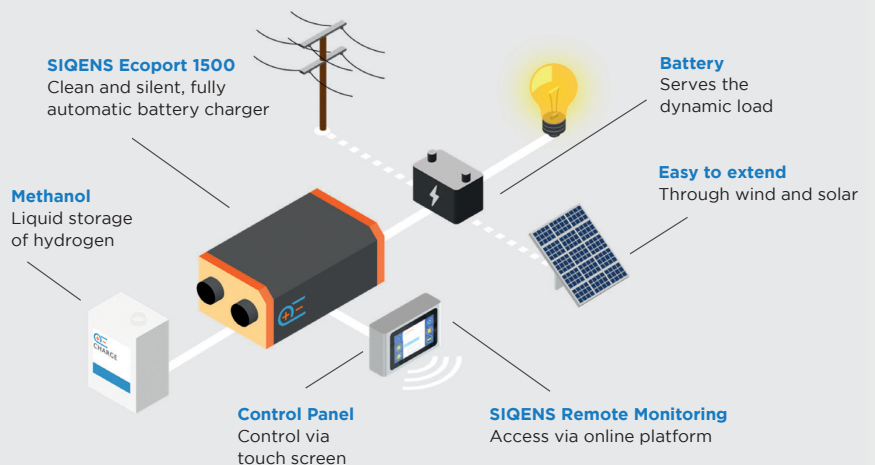
Off-Grid
clean. silent. independent.



Backup Power
simple. economical. reliable.



Mobility
compact. safe. silent.



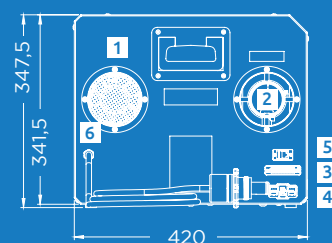


Technical Data

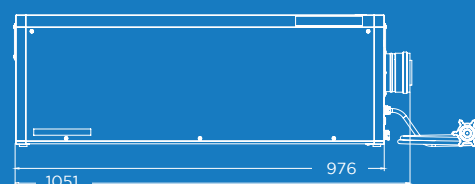
Nominal voltage	48 V DC
Voltage range	40 - 64 V DC
Backup Power (max.)	1,500 W
Primary Power	1,000 W
Charging capacity per day	max. 36 kWh
Stack performance (Primary Power)	min. 3,000 operating hours / 500 cycles
Fuel	Methanol (IMPCA, > 99,85%)
Consumption	0,6 l/kWh
Power consumption in standby	< 0.1 W
Electrical efficiency	38%
Starting time	45 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 W x H)	976 x 350 x 420 mm
Weight (without packaging)	62 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
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



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





A family
owned
Australian
business



Legal Entity Valen Power Pty Ltd
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