Advanced Fuel Cell Technology

Safe, clean and silent energy for off-grid power supply

Say goodbye to your diesel generator! The world needs off-grid power. Most of the off-grid energy for critical infrastructures comes from conventional generators.

Our ECOPORT 800 fuel cell system is the most effective battery charger for the global growth markets of industrial IoT, telecommunications and security technology.

Our patented technology convinces with its versatile and cost-effective application and robust, high-quality construction. As an off-grid energy source, we are unbeatable in the field.

For efficient and safe operation, we rely on the #1 future fuel – Methanol. Globally available, 99 % cleaner and 70 % cheaper than diesel. Compared to other hydrogen carriers, Methanol significantly reduces your fuel and infrastructure costs.

Key advantages

- Plug-and-play integration into any off-grid or backup power system
- Works with photovoltaic or wind for 100 % energy supply security
- Up to 800 W peak power at 24 V DC
- Charges all battery types
- 99 % lower emissions, 90 % reduced noise
- Compatible with IMPCA methanol standard, globally available
- Up to 70 % lower fuel costs than diesel or gasoline generators
- Fuel consumption only 0.6 l/kWh
- Reliable operation in nearly all climate zones from -20 to +50 °C

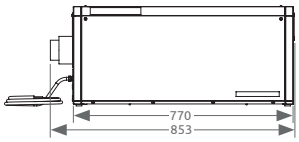
4CycleTec

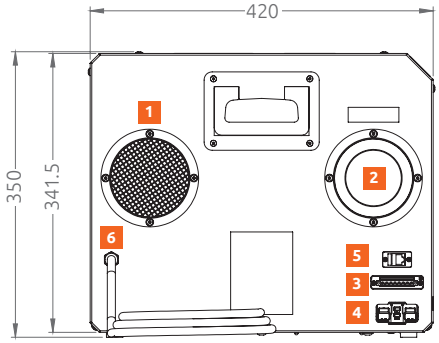
Product information

Ecoport 800

Technical Data Ecoport 800

1 Air intake
2 Exhaust
3 Signal connector
4 Load plug and battery voltage measurement 24 V
5 Data interface to the control panel
6 Methanol feed





Ecoport 800		
Nominal Power – begin of life in W	800 W maximum power 500 W at working point	**time (cold start)** 30 – 60 min*
Nominal voltage	24 Volts	
Battery types	lithium, lead acid, lead gel, AGM	
Maximum charge current at 24 V	33 A	
Constant charge current at 24 V	21 A	
Selfconsumption in standby mode	< 0.01 A	
Methanol consumption (at working point)	apprx. 0.5 - 0.7 l/kWh*	
Electrical efficiency at working point	> 35 %	
Weight (without packaging)	42 kg	
Dimensions (LxHxB)	770 x 350 x 420 mm (113 L)	
Data interfaces	Ethernet, digital input	
Lifetime (guaranteed)	3,000 h or 500 cycles (whichever occurs first)	
Recommended battery capacity (min., net)	100 Ah**	
Ambient temperature (min./max.)	-20°C / +50°C	
Humidity at max. ambient temperature	10 – 90 %	
Degree of protection	IP 20	
Maximum angle of slope for operation	10°	
Noise level (at 7m)	< 29 dB(A)	
Temperature at outlet	< 65°C (exhaust venting required)	
Order No.	E080024S01	

* depending on environmental conditions
** depending on system design

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If you have any questions or need more information, our sales team is always available for you.

Give us a call or send us an email.

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