

EFOY ProEnergyBox 4060P and 4120P



Reliable autonomous power supply
for industrial applications



The EFOY Pro Hybrid Solutions: what you need to know

- EFOY Fuel Cells are smart energy producers that can continuously and automatically recharge batteries.
- They're based on Direct Methanol Fuel Cell technology, which converts methanol into electricity through a single stage catalytic conversion process.
- When a solar array fails to deliver enough power, the EFOY senses the battery voltage drop and automatically switches on to keep the battery bank charged.
- Once the battery is recharged, the fuel cell returns to standby mode – no maintenance or user intervention required.
- EFOY Pro Fuel Cells support Modbus TCP communications which allows operators to remotely monitor and control the system and schedule fuel replacements.
- EFOY Pro Hybrid solutions deliver 30 – 50% total cost of ownership savings over alternative off-grid technologies.
- EFOY Pro Fuel Cells are 10 X more efficient, produce up to 99% fewer emissions and only consume 1 – 2% of the volume of fuel vs fuel gas genset technology.

Dependable off-grid power is a challenge in any application, but in industries where the landscape is constantly shifting, the challenge is even greater.

The rugged, purpose-built **EFOY ProEnergyBox** integrates the fuel cell in an insulated IP 43D pelican box including fuel cartridges, battery bank, solar charge controller, power distribution and room for integrating customer equipment.

Portable EFOY ProEnergyBox Hybrid systems are designed to provide approximately 12 months of fuel autonomy, making them ideal for long term autonomous deployments.



Find more information on efoy-pro.com

ProEnergyBox system design



Guaranteed power
availability **24/7/365**

EFOY ProEnergyBox Specs

Dimensions (D x W x H)
Weight (empty, on stand)
Housing
Housing color – standard
IP-protection category

4060P

1092 x 788 x 737 mm / 43 x 31 x 29 inch
49 kg / 108 lbs
HDPE Pelican Case w/ handles
White
IP 43D Weatherproof

4120P

1118 x 1118 x 915 mm / 44 x 44 x 36 inch
75 kg / 165 lbs
HDPE Pelican Case w/ handles
White
IP 43D Weatherproof

Hybrid Power Supply Specs

EFOY Fuel Cell
Solar Panels (subject to design)
Solar Charge Controller
Nominal voltage
Temperature range
EFOY Fuel Cartridges
Battery capacity @ 24 V / 48 V
EFOY Remote Monitoring
Additional space for customer equipment

EFOY Pro 900, 1800 or 2800
Up to 4 x 500Wp
40A or 60A MPPT
12 V or 24 V
-40 °C to +50 °C / -40 °F to +122 °F
Max 2 x M28 (28L) cartridges
2 x 100Ah / 150Ah 12 V Sealed AGM batteries
Modbus TCP or EFOY Cloud
Yes – DIN rail mounting for small devices

EFOY Pro 900, 1800 or 2800
Up to 4 x 415 Wp 72 cell solar panels (1660W)
25A or 60A MPPT
12 V or 24 V
-40 °C to +50 °C / -40 °F to +122 °F
Max 4 x M28 (28L) cartridges
4x 100Ah / 150Ah 12 V Sealed AGM batteries
Modbus TCP or EFOY Cloud
Yes – DIN rail mounting for small devices

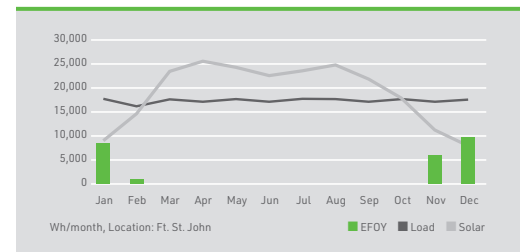
EFOY Pro Hybrid Solutions

Guaranteed power availability 24 / 7 / 365.

Smart, automatic battery charging supplements solar shortfalls.

2x M28 fuel cartridges provide 62 kWh of energy autonomy – enough to power a 50 W load for 52 days without any solar input.

Combined with a solar array, the hybrid solution provides approximately 12 months of energy autonomy and superior power reliability.



Certified safety

