

Reliable, autonomous power supply
for industrial applications

EFOY ProShelter Hybrid technology:

- ⚡ EFOY Fuel Cells convert methanol into electricity through a single-stage catalytic conversion process. They continuously and automatically recharge batteries.
- ⚡ When a solar array fails to deliver enough power, the EFOY(s) automatically switches on to ensure the battery bank is charged. Once completed, the fuel cell(s) returns to standby mode.
- ⚡ EFOY Pro Fuel Cells support Modbus TCP or EFOY Cloud communications allowing operators to monitor and control the system remotely.

EFOY ProShelter Hybrid benefits:

- ⚡ EFOY ProShelter Hybrid solutions deliver 30 – 50% total cost of ownership savings over alternative off-grid technologies.
- ⚡ They 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.



EFOY ProShelter Hybrid features:

The purpose-built **EFOY ProShelter** integrates EFOY fuel cells with fuel cartridges, battery bank, solar charge controllers, power distribution panel and space for customer equipment, all in a single C-can enclosure with 6" insulated walls. It's optimized for ultra-reliable performance in the harshest winter conditions.

Energy solutions performance is monitored through cold chamber testing and rated to -40° C.

EFOY ProShelter Hybrid systems are designed to provide ~12-18 months of energy autonomy.



Find more information on efoy-pro.com

Green power
availability **24/7/365**

EFOY ProShelter Specs

Dimensions (D x W x H)	2432 x 6045 x 2591 mm / 96 x 238 x 102 inch
Weight (empty/Full Est*)	4,763 kg / 10,500 lbs – 8,618 kg / 19,000 lbs
Housing	Powder coated steel enclosure
Housing color - standard	White - open to customer preference
IP-protection category	Nema 4 Weatherproof

20 ft C-can*

*30ft, 40ft and custom length also available upon request



Hybrid Power Supply Specs

EFOY Fuel Cell	Multiple EFOY Pro 2800 or Pro 12000 Duo units as required (up to 2.5 kW)
Solar Panels (subject to design/upon request)	Up to 14 x 675W mounted on the ProShelter and additional panels as required
Wind turbine	Upon request
Nominal voltage	24 V or 48 V DC
Output voltage	120VAC, 208VAC available or other Client preferences
Temperature range	-40 °C to +45 °C / -40 °F to +113 °F
Certification	cETLus Certified to CAN/CSA Standard 22.2 No. 14 and conforms to UL508A
EFOY Fuel Cartridges	4 to 8 M28 or MT60 cartridges per EFOY as required
Battery capacity @ 24 V / 48 V	500 Ah - 2,000 Ah Lead Carbon Battery Bank as required
EFOY Remote Monitoring	2800 - Modbus TCP or EFOY Cloud 12000 - Modbus RTU or SFC Connect
Additional space for customer equipment	Yes - on back pan and on c-can walls



EFOY Pro Hybrid Solutions

Reliable Green Power Availability 24 / 7 / 365.

Smart, automatic battery charging supplements solar shortfalls.

Larger capacities would house 46x MT60 fuel cartridges provide 3036 kWh of energy autonomy - enough to power a 500 W load for 44 days without any solar input.

Combined with a solar array, the hybrid solution provides approximately 12 - 18 months of energy autonomy and superior power reliability.

Certified safety

