



Mobile, reliable clean power solutions for mining and telecommunication applications.

The EFOY ProTrailer: what you need to know

- Ideal placement of a trailer may mean non-ideal solar availability. An EFOY fuel cell enables the system to be placed exactly where it's needed to perform its job, regardless of shadows from buildings, trees or other obstacles.
- EFOY Fuel Cells are smart energy producers that can continuously and automatically recharge batteries.
- EFOY Fuel Cells are based on Direct Methanol Fuel Cell technology, which converts methanol into electricity through a single stage catalytic conversion process.
- Ease of asset management. EFOY Cloud and Modbus TCP remote communication provides insight into how the system is performing in real-time, taking the guess work out of up-time and maintenance.
- The 38ft telescopic mast was designed to meet stringent specifications with a maximum twist of less than 5° and maximum inflection of less than 12" when fully extended.

Solar power alone is unreliable and combustion generators are loud, smelly, produce toxic emissions and can cause spills that are detrimental to the environment.

The rugged, purpose-built EFOY ProTrailer 4120T integrates one or two EFOY Pro fuel cells in an insulated Type 3R rated enclosure, hybridized with a fold-in fixed mount solar array to provide reliable clean power all year round.

EFOY Pro Hybrid solutions are designed to provide 12+ months of fuel autonomy, making them ideal for reliable long term deployments in challenging environments.



Find more information on efoy-pro.com

ProTrailer system design

The **EFOY ProTrailer 4120T solution** includes the base trailer, extendable vertical mast, insulated enclosure housing the EFOY Pro fuel cell, battery bank, solar charge controller and methanol fuel cartridges. The solar array comes wired to the solar charge controller with a safety disconnect breaker.

EFOY ProTrailer Specs

Dimensions of the base trailer (L x W)	3.1 m x 1.5 m / 123 in x 60 in (hot dipped galvanized)
Height of mast	2.7 – 11.6 m / 9 – 38 ft (Electric winch)
Axle	Single – 2722 kg / 6000 lb capacity
Jacks	Four – 907 kg / 2000 lb, swivel, telescopic stabilizer jacks
Hitch type	2" ball or pintle hitch (can customize as required)
Enclosure	Insulated Type 3R powder coated steel

Hybrid Power Supply Specs

Fuel cell	Single or Dual EFOY Pro 2800 (125W/250W)
Solar panels (subject to design)	4 x 500Wp
Solar charge controller	60A MPPT
Solar mounting	Fixed side solar mounting (2 to 4 panels)
Nominal voltage	24 V
Temperature range	-40 °C to +50 °C / -40 °F to +122 °F
Certification	cETLus Certified to CAN/CSA Standard 22.2 No. 286 and conforms to UL508A
EFOY fuel cartridges	4 x M28 (28L) cartridges
Battery capacity	4 x 150Ah 12V Sealed AGM Batteries
EFOY remote monitoring	Modbus TCP or EFOY Cloud

Mast Specs

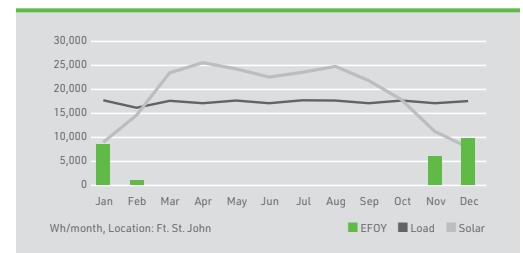
Maximum windspeed: 110km/h
Maximum equipment payload: 50 lbs (includes provision for rotator, mast top mount and coiled cable)
Maximum equipment surface area: 600 in ²
Maximum inflection: ± 12"
Maximum twist: 5°

4120T



EFOY Pro Hybrid Solutions

Guaranteed power availability 24 / 7 / 365.
 Smart, automatic battery charging supplements solar shortfalls.
 4x M28 fuel cartridges provide 124kWh of energy autonomy – enough to power a 60 W load for 86 days without solar input.
 Combined with solar, the solution provides approximately 12 months of energy autonomy and superior power reliability.



Certified safety

