

EFOY ProTrailer 4120T and 4130T



Mobile, reliable power supply
for industrial applications



The EFOY ProTrailer: 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 have Modbus RTU communications built into the firmware, 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 constantly shifting, the challenge is even greater. Enter the EFOY ProTrailer – a dependable, self-contained energy solution that delivers 100% reliable power wherever power is required.

SFC Energy's EFOY ProTrailer utilizes patented fuel cell technology combined with solar power to deliver a reliable, autonomous power supply ideal for site surveillance, communication, data logging and other industrial applications.

The rugged, purpose-built EFOY ProTrailer integrates the fuel cell in an insulated NEMA 3R -40° C rated enclosure. It includes a vertical mast and fixed solar mounting. EFOY Pro Hybrid systems are designed to provide 12 – 18 months of fuel autonomy, making them ideal for short or long term deployments.



Find more information on efoy-pro.com

ProTrailer system design

SFC Energy's EFOY ProTrailers are hybrid power solutions in insulated NEMA 3R enclosures, which house the fuel cell, fuel cartridges, battery bank, solar charge controller and power distribution. Waste heat generated by the EFOY is captured inside the cabinet to keep all the components warm in winter, further improving the efficiency of the system and eliminating the need for a heater.

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 (2000lb worm gear manual winch)
Axel	Single - 1587 kg / 3500 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 NEMA 3R powder coated steel (aluminum or stainless steel optional)

The EFOY ProTrailer solution includes the base trailer, extendible vertical mast, insulated NEMA 3R enclosure housing the EFOY Pro fuel cell(s), battery bank, solar charge controller and methanol fuel cartridges. The solar array with fixed fold-in mounting structure comes wired to a solar combiner box with a safety disconnect switch. Top of mast mounting plate, Nycoil mast curly cable, spare tire and wind turbine integration are available as options.

Hybrid Power Supply Specs

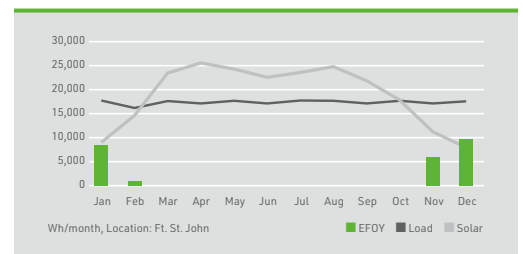
	4120T	4130T
Fuel cell	Single or Dual EFOY Pro 2400 Duo (110W/220W)	Single or Dual EFOY Pro 2400 Duo (110W/220W)
Solar panels (subject to design)	Up to 4 x 400 Wp 72 cell solar panels (1600 W)	Up to 4 x 400Wp 72 cell solar panels (1600 W)
Solar charge controller	60A MPPT	60A MPPT
Solar mounting	Fixed side solar mounting (2 to 4 panels)	Fixed side solar mounting (2 to 4 panels)
Nominal voltage	12 V or 24 V	12 V or 24 V
Temperature range	-40 °C to +50 °C / -40 °F to +122 °F	-40 °C to +50 °C / -40 °F to +122 °F
Certification	CSA 22.2 no. 14.05 & cETL/us Certification	CSA 22.2 no. 14.05 & cETL/us Certification
EFOY fuel cartridges	4 x M28 (28L) cartridges	2 x MT60 (60 L) cartridges
Battery capacity @ 24 V / 24 V	4 x 150Ah 12V Sealed AGM Batteries	2 x 250Ah 12V Sealed AGM batteries
EFOY remote monitoring	Modbus RTU / SFC Connect / TBox (optional)	Modbus RTU / SFC Connect / TBox (optional)

EFOY Pro Hybrid Solutions

Guaranteed power availability 24 / 7 / 365.

Smart, automatic battery charging supplements solar shortfalls.

2x MT60 fuel cartridges provide 132 kWh of energy autonomy – enough to power a 60 W load for 92 days without solar input. Combined with solar, the solution provides 12 - 18 months of energy autonomy and superior power reliability.



Certified safety

