



Fuel Cell Power for Critical Stationary Power Applications.

Plug Power's ReliOn E-1100™ hydrogen fuel cell - efficient, compact, environmentally responsible energy. Designed for backup power applications within the telecommunications, utility, transportation and government sectors, the E-1100 fuel cell system provides up to 1,100 Watts of DC power. Multiple systems may be combined for higher power applications and N+1 redundancy. The E-1100 is fueled by hydrogen and can affordably provide highly reliable extended runtime for critical equipment.

Proven. Rugged. Reliable. Clean. Plug Power has installed more than 3,600 ReliOn fuel cells at customer sites across the United States and 36 other countries. With more than 86 million installed hours of site power protection, ReliOn products are field-proven through snow and ice storms, hurricanes and other severe weather events. Because the only emissions are warm air and a small amount of water, the E-1100 is exempt from the most stringent air quality standards and is a valuable component of corporate sustainability efforts.

Powerful Benefits

- **Higher Reliability**
 - Third-party verified at 99.6%
- **Lower Operational Costs**
 - Exchange an air filter annually
- **Reduced Site Emissions**
 - Safe, clean, zero emission power
- **Flexible Installation Configurations**
 - Indoors/Outdoors, Ground level/platform/rooftop, Multiple bus/Multiple voltage, Multiple fueling options

ReliOn E-1100™
in environmentally-hardened cabinet



POWER RANKED AHEAD

Environmentally-hardened

We understand that you need your power solution to perform wherever your equipment is located. ReliOn fuel cells perform in hot and cold, humid and arid environments. Certification testing has confirmed their capabilities in wind-driven rain, brush fire and earthquake conditions. More importantly, they perform during real world conditions.

Cost-effective

Required fuel cell maintenance is limited to an annual air filter exchange. ReliOn E-1100 fuel cells initiate an auto-exercise program every few weeks so that they are ready to perform when you need them. Fuel cell health and fuel levels may be remotely monitored. Simple maintenance and fewer site visits mean up to 84% lower operational costs when compared to combustion generators. Clean, zero emissions operation means not having to address fuel spill containment and air quality reporting requirements.

Scalable for higher capacity applications

ReliOn E-1100 fuel cells may be used solo for power requirements under 1,100W or in multiples for larger power requirements. More than 30 possible indoor shelter rack-mount and environmentally-hardened outdoor cabinet configurations allow you to purchase the amount of power you need now and upgrade if requirements change in the future.



PRODUCT SPECIFICATIONS

PHYSICAL	Dimensions (W" x D" x H")	17.25" x 24" x 7" / 43.8cm x 61cm x 18cm
	Weight	58 lbs / 26.4 kg
	Mounting	19" or 23" rack mount
PERFORMANCE	Maximum power	1,100W per chassis
	Rated current	46A @ 24V / 23A @ 48V
	DC Voltage	24 / 48V nominal
OPERATION	Ambient temperature	23°F to 122°F / -5°C to 50°C (Optional -40°F to 122°F / -40°C to 50°C in hardened outdoor cabinet)
	Relative humidity	0-95% non-condensing
	Altitude	-197 ft to 13,800 ft / -60m to 4,206m
	Location	Indoors or hardened outdoor cabinet
EMISSIONS	Water	Max 25mL / kWh (primarily vapor)
	Noise	51.6dBA @ 23ft (7m) / 65dBA @ 4.9ft (1.5m)
MONITORING / CONTROL	Remote	System configuration & status / Historical & operational data
	Communications	Standard: USB / Dry contact / Ethernet / SNMP / Web interface Optional: Wireless modem - CDMA / GSM / Ethernet switch
FUEL	Composition	Standard industrial grade hydrogen (99.95%)
	Supply pressure to unit	8 to 12 psig / 55.1 to 82.8 KPag / 0.55 bar to 0.83 bar
	Consumption	14 slpm @ 1,100W
	Hydrogen storage capacity	n/a (multiple fueling solutions available separately)

Specifications subject to change without notice. Information based on standard products working under normal operating conditions.



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