

## Fuel Cell Power for Critical Stationary Power Applications.

Plug Power's ReliOn E-1100v<sup>™</sup> hydrogen fuel cell - highly reliable, compact, environmentally responsible energy. Designed for backup power applications within the telecommunications, utility, transportation and government sectors, the E-1100v fuel cell system provides up to 1,100 Watts of DC power in a vertical rack-mount chassis for space-sensitive applications. The E-1100v 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-1100v 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
- **Smaller Footprint**
  - Up to 67% less footprint space needed compared to our E-1100 solution

**ReliOn** E-1100v<sup>™</sup>  
in environmentally-hardened cabinet



## Flexible installation options

Plug Power's ReliOn E-1100v fuel cell was designed to meet the needs of our customers for whom footprint space is at a premium. The industry-first, vertical fuel cell may be rack-mounted indoors in an existing shelter or outdoors in an environmentally-hardened cabinet. Flexible outdoor configurations include fuel cabinet-mount and shelter wall-mount. Multiple fueling options are available.

## 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-1100v 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.



## PRODUCT SPECIFICATIONS

<b>PHYSICAL</b>	Dimensions (W" x D" x H")	18.75" x 7.375" x 27" / 47.6cm x 18.7cm x 68.6cm
	Weight	63 lbs / 28.6 kg
	Mounting	23" rack mount
<b>PERFORMANCE</b>	Maximum power	1,100W
	Rated current	46A @ 24V / 23A @ 48V
	DC Voltage	24 / 48V nominal
<b>OPERATION</b>	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
<b>EMISSIONS</b>	Water	Max 25mL / kWh (primarily vapor)
	Noise	51.6dBA @ 23ft (7m) / 65dBA @ 4.9ft (1.5m)
<b>MONITORING / CONTROL</b>	Remote	System configuration & status / Historical & operational data
	Communications	Standard: USB / Dry contact / Ethernet / SNMP / Web interface Optional: Wireless modem - CDMA / GSM / Ethernet switch
<b>FUEL</b>	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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