## 1 kW PEM fuel cell

## independence 1000<sup>™</sup>

Available now, the Independence 1000<sup>™</sup> is designed to provide highly reliable performance in backup power applications. This fuel cell system will provide the redundancy you expect from battery strings, along with the extended runtime you seek from generators, without the drawbacks associated with either of these technologies. The Independence 1000<sup>™</sup> is quiet and generates



electricity using standard industrial grade hydrogen, with heat and water as the only by-products -- making it ideal for any backup power application in your network. This fuel cell is also scalable and multiple units can be grouped together to address larger load requiremments. Avista Labs' patented Modular Cartridge Technology®

allows maintenance to be performed by replacing cartridges in minutes using no tools and without an interruption of power.

Call us to discuss your power requirements!





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## Specifications

Power Output: Continuous	1kW
Voltage: * 24 VDC system rated a	24*, 48, or 125 VDC nominal t 950 watts
Operating Conditions:	0° C - 46° C (32°F - 115°F)
$(-40^{\circ}$ C to $+46^{\circ}$ C with	optional enclosure)
Efficiency:	40% (average across full power range)
Fuel Supply:	Standard industrial grade H <sub>2</sub> (99.95%)
Supply Pressure:	25-100 psi
Fuel Consumption:	15 SLPM @ 1kW 7.5 SLPM @ 500W
Size:	44cm w x 51cm h x 70cm d 17.25"w x 20.5"h x 25.12"d
Weight:	67 kg / 147 lbs.
Start-up Modes:	External dry contact Ethernet command Low battery voltage Manual switch
Noise:	~ 53 dBA @ 1 meter

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