

100W PEM fuel cell

independence 100

Introduced in 2002, the Independence 100 is a 100 watt portable fuel cell system with a 12-volt output. It is designed for remote signaling, signs and monitoring devices. The product has both power supply and battery charging modes. The Independence 100 can improve the reliability and quality of backup power provided during limited duration outages by

reducing dependence on batteries, generator sets, and other technologies that pose environmental hazards.

The Independence 100 is powered by one of Avista Labs' 650 series modular power cartridges using industrial grade hydrogen. Weighing in at only 45 pounds, this fuel cell is truly portable.



Specifications

<i>Power Output:</i>	
Continuous	100w
<i>Voltage:</i>	12VDC
<i>System Start-up Time:</i>	
50% power	instantaneous @ 25°C
100% power	< 7 minutes @ 25°C (longer start-up times in battery charger mode)
<i>Operating Conditions:</i>	0°C – 45°C (32°F – 113°F)
<i>Efficiency:</i>	36-40% @ full load
<i>Fuel Supply:</i>	Industrial grade H ₂
<i>Supply Pressure:</i>	3-5psi, 6psi max.
<i>Fuel Consumption:</i>	1.5 liters/min@100w .8 l/m @ 50w
<i>Size:</i>	49.8cm h x 27.3cm w x 35.6cm d (19.6"h x 10.75"w x 14"d)
<i>Weight:</i>	45 lbs.
<i>Modes:</i>	Battery charger or direct power supply - remote or manual start



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