



## **72 kW APOLLO™ POWER PLANT - MODEL 106-B**

### **5.47 kW FUEL CELL AND 72 kWh BATTERY w/ 25 kW OVERLOAD PROTECTION**

**Application:** 24-Hour Power Supply for Home, Farm or Commercial Establishment for Heating, Lighting and operation of appliances independent of the outside power line (utility grid) supplied by the electric utility company.

- Will operate an 8-HP AC Electric Motor on a continuous 24-hour basis.

#### Specifications of Power Plant equipment:

##### **Lead Cobalt Battery.**

240 volt @ 300 amps 1/C = **72 kWh**  
One minute power surge: 900 amps.  
Battery supplies power to Inverter.

##### **Apollo™ Fuel Cell.**

342 volts open circuit (360 cells @0.95 volts per cell).  
288 volts @ 0.8 volts per cell under 19 amp load = **5.47 kW**.  
Fuel cell charges battery at 288 volts @ 19 amps.

##### **Maximum Heating & Lighting Energy:**

5.47 kW x 24-hours = 131 kWh x 30 days = 3,930 kWh

##### **DC to AC Inverter for supplying power to load:      **72 kW****

Input from battery: 288 Volts DC, 19-amps	<b>5.47 kW</b>
One-minute overload: 900 amps @ 240 volts	<b>259 kW</b>
Output:            240 Volts AC, 50/60 Hertz, 21.6 amps	<b>5.200 kW</b>
230 Volts AC, 50/60 Hertz, 22.6 amps	<b>5.200 kW</b>
120 Volts AC, 50/60 Hertz, 43.3 amps	<b>5.200 kW</b>

- **AUTOMATED CONTROL SYSTEM**
- **Cable, conduit, plumbing, hydrogen sensors and cabinets for system integration.**

##### Hydrogen Generation Equipment:

- Ammonia Cracker
- Natural Gas / Propane (LPG) Reformer