



7.2 kW APOLLO™ POWER PLANT - MODEL 104-C

4.3 kW FUEL CELL AND 7.2 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 a 5-HP AC Electric Motor on a continuous 24-hour basis.

Specifications of Power Plant equipment:

Lead Cobalt Battery.

240 volt @ 30 amps 1/C = **7.2 kWh**
 One-minute power surge: 90 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 15 amp load = **4.3 kW**.
 Fuel cell charges battery at 288-volts @ 15 amps.

Maximum Heating & Lighting Energy:

4.3 kW x 24-hours = 103 kWh x 30-days = 3,090 kWh

DC to AC Inverter for supplying power to load: 7.2 kW

Input from battery: 288 Volts DC, 10 amps		4.320 kW
One-minute overload: 90 amps @ 288 volts		25.920 kW
Output:	240 Volts AC, 50/60 Hertz, 17.1 amps	4.104 kW
	230 Volts AC, 50/60 Hertz, 17.84 amps	4.104 kW
	120 Volts AC, 50/60 Hertz, 34.2 amps	4.104 kW

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

Hydrogen Generation Equipment:

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