



## 4.8 kW APOLLO™ POWER PLANT - MODEL 102-C

**2.88 kW FUEL CELL AND 4.8 kWh BATTERY w/ 17 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 3-HP AC Electric Motor on a continuous 24-hour basis.

### Specifications of Power Plant equipment:

#### Lead Cobalt Battery.

240-volt @ 20-amps 1/C – 4.8 kWh  
 One-minute power surge: 60-amps.  
 Battery supplies power to Inverter.

#### Apollo™ Fuel Cell.

320 volts open circuit (360 cells @0.95 volts per cell).  
 288 volts @ 0.8 volts per cell under 10 amp load = **2.88 kW**.  
 Fuel cell charges battery at 288 volts @ 10 amps.

#### Maximum Heating & Lighting Energy:

2.88 kW x 24 hours = 69 kWh x 30 days = 2,070 kWh

**DC to AC Inverter for supplying power to load: 4.8 kW**

Input from battery: 288 Volts DC, 10 amps		2.880 kW
One-minute overload: 60 amps @ 288 volts		17.280 kW
Output:	240 Volts AC, 50/60 Hertz, 11.40 amps	2.736 kW
	230 Volts AC, 50/60 Hertz, 11.89 amps	2.736 kW
	120 Volts AC, 50/60 Hertz, 22.80 amps	2.736 kW

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

#### Hydrogen Generation Equipment:

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