



43 kW APOLLO™ POWER PLANT - MODEL 127-C

25 kW FUEL CELL AND 43 kWh BATTERY w/ 155 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 35-HP AC Electric Motor on a continuous 24-hour basis.

Specifications of Power Plant equipment:

Lead Cobalt Battery.

240 volt @ 180 amps 1/C = **43.2 kWh**
 One-minute power surge: 540 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 90 amp load = **25.92 kW**.
 Fuel cell charges battery at 288-volts @ 90 amps.

Maximum Heating & Lighting Energy:

25.92 kW x 24-hours = 622 kWh x 30-days = **18,660 kWh**

DC to AC Inverter for supplying power to load: 43.2 kW

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

Hydrogen Generation Equipment:

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

Input from battery: 288 Volts DC, 90 amps		25.92 kW
One-minute overload: 540 amps @ 288 volts		155.52 kW
Output:	240 Volts AC, 50/60 Hertz, 114.55 amps	27.493 kW
	230 Volts AC, 50/60 Hertz, 119.43 amps	27.493 kW
	120 Volts AC, 50/60 Hertz, 229.10 amps	27.493 kW