



## 86 kW APOLLO™ POWER PLANT - MODEL 6000

**51.8 kW FUEL CELL AND 86 kWh BATTERY w/ 891 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.

### Specifications of Power Plant equipment:

#### Lead Cobalt Battery.

240 volt @ 360 amps 20/C = **86.40 kWh**

One-minute power surge: 1,440 amps.

Battery supplies power to Inverter.

#### Apollo™ Fuel Cell.

334 volts open circuit (303 cells @0.95 volts per cell).

360 volts (@ 0.8 volts) per cell under 180 amp load = **60.12 kW**

#### Maximum Heating & Lighting Energy:

60.12 kW x 24-hours = 1443 kWh x 30-days = **43,290 kWh**

**DC to AC Inverter for supplying power to load: 86.40 kW**

Input from battery: 360 Volts DC, 360 amps		<b>86.40 kW</b>
One-minute overload: 1,440 amps @ 240 volts		<b>345.60 kW</b>
Output:	240 Volts AC, 50/60 Hertz, 250 amps	<b>60 kW</b>
	230 Volts AC, 50/60 Hertz, 260 amps	<b>60 kW</b>
	120 Volts AC, 50/60 Hertz, 500 amps	<b>60 kW</b>

- **AUTOMATED CONTROL SYSTEM**
- **Grid Feedback controlled by Utility Company**
- **Cable, conduit, plumbing, hydrogen sensors and cabinets for system integration.**

#### Hydrogen Generation Equipment:

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

## APOLLO POWERPLANTS - MEGA WATT SIZES

Size of Power Plant	Gallons NH <sub>3</sub> per 24 Hours	Square Feet Installation	Cubic Feet Fuel Tank	Replacement of F.C. Stacks **	Replacement of Batteries ***	Selling Price	Annual Maintenance
100 kW	16.4	16	7	\$18,848	\$7,400	\$99,240	SEE NOTE ##
1000 kW (1 MW)	164	1,600	70	\$188,480	\$74,400	\$992,000	SEE NOTE ##
10 MW	1,640	16,000	700	\$1,884,800	\$744,000	\$9,920,000	SEE NOTE ##
20 MW	3,280	32,000	1,400	\$3,769,600	\$1,488,000	\$19,840,000	SEE NOTE ##
25 MW	4,100	40,000	1,750	\$4,700,000	\$1,860,000	\$24,800,000	SEE NOTE ##
40 MW	6,560	64,000	2,800	\$7,539,200	\$2,976,000	\$39,680,000	SEE NOTE ##
50 MW	8,200	80,000	3,500	\$9,400,000	\$3,720,000	\$49,600,000	SEE NOTE ##
100 MW	16,400	160,000	7,000	\$18,800,000	\$7,440,000	\$99,200,000	SEE NOTE ##

\*\* Replacement of Fuel Cell Stacks every 7 ½ years

## One day per week inspection by an engineer + worker  
Plus \$100 per week for spare parts.

\*\*\* Replacement of Batteries every 5 years