

HYDROGEN MINER[®] SOLAR

by EMARENA



“The Race For Solar Farmed Hydrogen Has Begun”

20240307

EMARENA

MMXXIV

Hydrogen Miner[®] Solar ::

The Solar series offers gas productivity through electrolysis for any application, including power outage, battery charge limitations and modalities of energy storage.

8770 W BRYN MAWR AVE
STE 1300
CHICAGO IL 60631

sales@emarena.com

Hydrogen Miner Basics :

Hydrogen Miner machines are ideal for both Oxygen and Hydrogen production. Hydrogen Miner is designed for ease of use, reduce maintenance and optimized for extended service life. Stainless steel electrodes are included to produce high quality gas at an affordable rate and are consumable.

Power Outage and Balancing Solutions :

The Solar series of electrolysis machines is optimized for very large array. Any number of single cells may be used in parallel to generate a grid resistor as a gas producing machine. The units may be powered between 5 volts and 50 Volts and 1 Amp/Volt configuration per electrical connector. As a research and development series silo product, up to 4 electrical connectors are suggested. The limiting factor for current per unit would be chemical break down of the suggested chemical solute, sodium hydroxide.

Solar Series Format:

The solar series format is an open configuration. Each 60 inch by 12 inch x 4 inch cell may be used in part to create a structural element or housing. This allows units to be placed near solar arrays to reduce power transmission equipment. The open framework is sufficient for cooling of the system and allows for engineering design optimization below 17 volts 17 amps. Parallel thermal liquid cooling solutions are suggested when convection cooling is insufficient. Running the system hot improves gas output and in some instances loss of efficiency is observed at or below the freezing point of water.

Requirements for Standard Setup [not included]:

- Gas compression and storage systems for Hydrogen.
- Protective containment for cells is suggested as a room, cubicle or container.
- A structural support for mounting each cell.
- An isolated electrical box for AC and DC supplies is required.
- Variable DC voltage source or supply of 5-50 Volts, 1A/V is required.
- 120 Volt 60Hz AC supply for a single demo power supply is suggested.
- *As per industrial code: In house electricians, industrial gas or plumbing specialists may be required.*



HYDROGEN MINER
SINGLE CELL

Fee Schedule 2024:

- 17,500\$USD :: Hydrogen Miner Pool Cell Purchase (pre-order only); Includes a single 50 Amp Connector.
- 2,000\$USD :: Hydrogen Miner [Unbranded] Monthly Rental, 12 month minimum.
- 500\$USD/Hr :: Hydrogen Miner Setup cost per hour.
- At Cost\$:: Incidentals and Transportation/Shipping.

Scientific / Research:

500\$ per hour.

Maintenance, Upgrades and Options:

- At Cost. Stainless Steel, Copper, Platinum or Aluminum Electrodes (1 inch diameter).
- At Cost. Custom non-reactive seals and compatible adhesive.
- At Cost. Refurbishing, repair or modification of Hydrogen Miner, Ozone attachment units not included.

WARRANTY : NO WARRANTY OR CLAIM OF WARRANTY, PRICES MAY CHANGE WITHOUT NOTICE