



The Hydrogen Group

800-409-6309

Technical Data Sheet

1. System Description

Sealed onboard dry-cell hydrogen generator producing H₂/HHO gas to improve diesel combustion. The 1-gallon electrolyte system contains 25 wt% KOH in distilled water, and gas is routed through a dryer before engine intake. Operates at 13.4 V with 25–35 A draw, with built-in heater to prevent freezing and safety interlocks for voltage, pressure, and low electrolyte levels.

2. Technical Specifications

- Hydrogen Generation: 3L per minute of HHO Gas
- Cell Type: Dry cell
- Type of Electrolyte: Potassium Hydroxide
- Amount of Electrolyte: 25 wt.% in distilled water
- Voltage Requirement: 12V or 24V
- Power Consumption: 335-469 Watts
- Power Draw: 25-35 Amps
- Physical Characteristics (dimensions, weight, materials)
- Operating Temperature: -40F(-40C)-120F(49C)

3. Physical Characteristics

- Housing: Steel Box
- Dimensions (W x D x H): 19in(43cm) x 10.5in(27cm) x 26in(66cm)
- Dry Weight: 70lbs(31.75Kg)
- Test methods (e.g., SAE J1321 Type II)
- Graphs/Charts (to be inserted)

4. Safety Features

- Auto-start only at ≥ 13.4 V
- Low-level shutoff
- Pressure switch disables unit if feed-line pressure detected
- Built-in heater prevents cell freezing

5. Maintenance Requirements

- Check water level periodically and top off with distilled water as needed.
- Drain and refill the system approximately once per quarter (Every 3 months), adding KOH to restore 25 wt%.
- No KOH addition is required between scheduled refills **unless a decline in hydrogen production or cell performance is observed.**

6. Installation Details

See installation guide for details

7. Warranty & Support

- 2 years parts
- Support email: jeff@thehydrogen-group.com

8. Applications



Trucking



Generators



Construction



Mining



Farming