EODev GEH2 | 100 kVA

HYDROGEN FUEL CELL GENERATOR

Standby Power Rating
88 kW, 110 kVA, 60 Hz

Prime Power Rating
80 kW, 100 kVA, 60 Hz

Continuous Power Rating
Contact Factory

Picture shown may not reflect actual configuration.

Zero-Emission Hydrogen Power Generator

In the case of grid failure, or simply when you go off-grid, the GEH2 electro-hydrogen generator brings you the power you need quietly without emissions of fine particles, noise, fumes, or CO_2.

Reliable

Running exclusively on hydrogen, the GEH2 is equipped with the latest generation of fuel cell from Toyota, giving it exceptional reliability and long service intervals.

Efficient

The combined use of a fuel cell and a battery allows for optimized efficiency and unmatched responsiveness. The overall electrical efficiency of the GEH2 exceeds 45% regardless of the load whereas a diesel genset reaches 30-40% at its best.

Easy to Use

Easily handled by crane or forklift, the GEH2 offers a user friendly touchscreen interface and a remote monitoring option. Connect it to a hydrogen bundle, turn it on, power your application. It is that simple.

Scalable

GEH2 units can be connected in parallel to meet your power requirement. It can also be connected to battery storage, diesel, or gaseous generators for peak shaving purposes.

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FEATURES

POWER AND VOLTAGE

- 100 kVA Three-Phase Prime Rated Power
- 480/277 V Three-Phase Main Output

POWER DISTRIBUTION

- 480/277 V Three-Phase Main Output Camlocks
  - L1 - Brown
  - L2 - Orange
  - L3 - Yellow
  - Neutral - White
  - Ground - Green

BATTERY TECHNOLOGY

- $LiFePO_4$ Batteries
- 44 kWh

CONTROL SYSTEM

- DEIF AGC4 MK2 Controller
- Main Circuit Breaker (MCB)
- Emergency Stop

MOBILITY

- Forklift Pockets
- (4) Lifting Rings for Top Lift

FUEL CELL

- Toyota PEM Fuel Cell
- ISO 14687 Grade D Hydrogen Gas

ACCESSORIES

HYDROGEN GAS SUPPLY

- External Hydrogen Gas Regulator System 200 bar - 15 bar
- Hoses and Monitoring Cables

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GENERAC | INDUSTRIAL POWER

APPLICATION AND ENGINEERING DATA

SPECIFICATIONS

	EODev GEH2
Standby Power Rating	88 kW/110 kVA
Prime Power Rating	80 kW/100 kVA
Minimum Load	None
Frequency	50/60 Hz
Main Output Voltage @ 60 Hz	480/277 V Three-Phase
Hydrogen Gas Specification	ISO 14687 Grade D
Input Pressure at Generator	9-16 bar (130-232 psi)
Fuel Cell Hydrogen Consumption @ 11 kW	0.5 kg/hr (1.1 lb/hr)
Fuel Cell Hydrogen Consumption @ 35 kW	2.0 kg/hr (4.4 lb/hr)
Fuel Cell Hydrogen Consumption @ 70 kW	4.7 kg/hr (10.4 lb/hr)
Battery Type	$LiFePO_4$
Battery Capacity	44 kWh
Operating Temperature (*)	-15-40 °C (5-104 °F)

APPROXIMATE RUNTIME

Hydrogen Supply Type	Rack	Rack	Rack	Tube Trailer	Tube Trailer	Container
Storage Pressure	200 bar (2,900 psi)	300 bar (4,350 psi)	500 bar (7,250 psi)	200 bar (2,900 psi)	300 bar (4,350 psi)	500 bar (7,250 psi)
Hydrogen Capacity	13 kg (29 lb)	19 kg (42 lb)	32 kg (71 lb)	250 kg (550 lb)	350 kg (770 lb)	1000 kg (2,200 lb)
Runtime @ 80% PRP	4.5 hr	6.5 hr	10.5 hr	80 hr	110 hr	>300 hr

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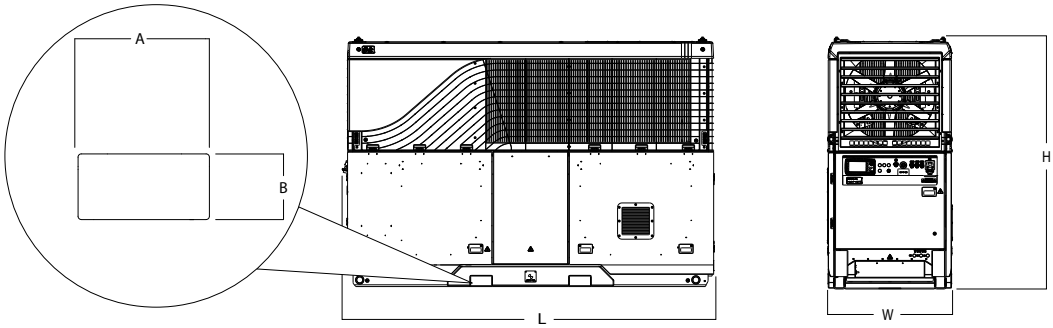
OPERATING DATA

POWER RATINGS

	Standby: kW/kVA (A)	Prime: kW/kVA (A)
Three-Phase, 480/277 VAC @ 0.8 PF & 60 Hz	88/110 (132)	80/100 (120)

DIMENSIONS AND WEIGHTS*



Unit Dimensions L×W×H - in (mm) Forklift Pocket Dimensions A×B - in (mm)
L×W×H = 129.9×43.3×88.7 (3,300×1,100×2,252)
A×B = 7.5×3.4 (190×87)

Unit Weight - lb (kg)
7,480 (3,400)

SOUND RATING

- Inaudible Above Background, Sub-65 dB(A) while cooling fan is running

* All measurements are approximate and for estimation purposes only.

YOUR FACTORY RECOGNIZED GENERAC MOBILE DEALER

Specification characteristics may change without notice. Dimensions and weights are for preliminary purposes only. Please contact a Generac Mobile Products Authorized Service Dealer for detailed installation drawings.

SPEC SHEET

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