

750 KW HYDROGEN POWERED MICROGRID



FRONT VIEW
(8' X 20')



BACK VIEW
(8' X 20')

BUY AMERICA COMPLIANT

PRODUCES 4 MWH OF ENERGY PER DAY

THE PROBLEMS

Available Power - NEVI charging locations require (4) 150 kW fast chargers operating simultaneously (600 kW of power), which electric grids may not be able to support

Economic Power - Demand charges and unnecessary fixed costs will limit EV adoption

Reliable Power - NEVI mandates 600kW available on demand, requiring backup during grid outage or blackouts

THE SOLUTION

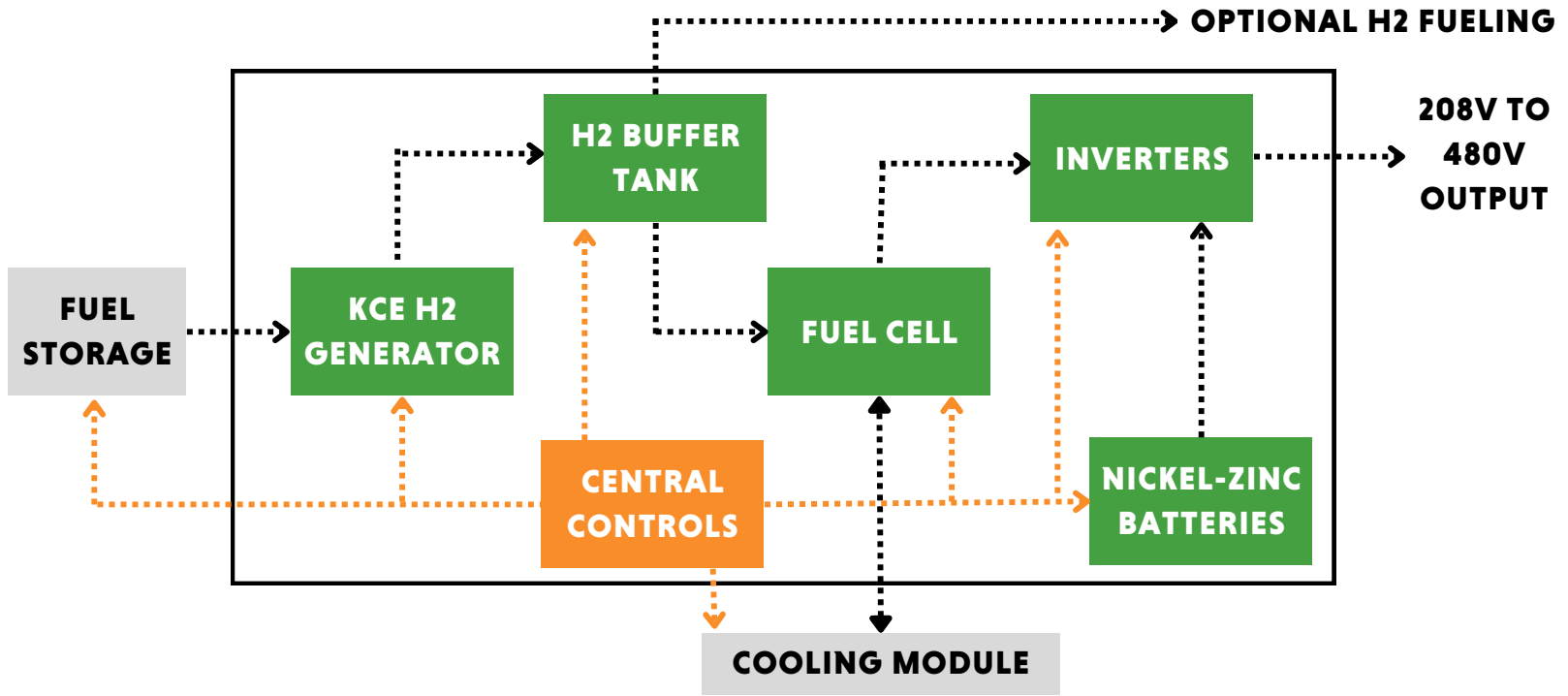


(4) 150 KW CHARGERS

CHARGE ALL AT ONCE



HOW IT WORKS



EQUIPMENT

KCE H2 Reformer	230 kg/day
Low Pressure Buffer Tank	120 Gallons
Fuel Cell Module	185 kW Capacity
Battery Module	384 kWh (Safe, Sustainable Nickel-Zinc)
Inverters	480V 3-Phase Output
EV Chargers	(4) 150kW DC Fast Chargers

PERFORMANCE

Hydrogen Quality	Fuel Cell Grade: ISO (14687:2019)
Max Power	750 kW
Time To Recharge Batteries	2 Hours
Power Required	Grid Independent or 20 kW
Fuel	Methanol / Water
Local Emissions	No NOx, SOx, or Particulates

SAMPLE LIST OF SAFETY AND COMPLIANCE

General Guidelines	NFPA 2
Hydrogen Reformer	ANSI / CSA FC5 (Similar to ISO 16110-1-2007)
Process Piping	ASME B31.3, B31.12, and Section 8 VIII
Buffer Tank	CGA Publication PS33
Fuel Cell	IEC-62282-5-100 & -500
H2 Venting	NFPA 2, 853, 54, & GCA Publication G5.5

CONTACT INFORMATION

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