

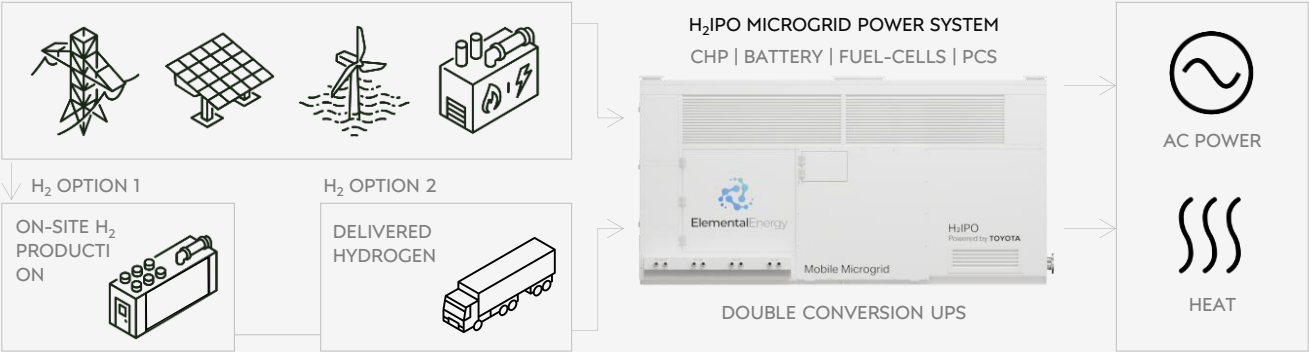
Elemental Energy’s H₂IPO is an advanced microgrid power solution that actively manages primary power sources [solar, wind, grid] and provides firming with a hybrid lithium battery and hydrogen fuel-cell system.

H₂IPO eliminates the need for fossil-fuels for long-duration energy delivery or for backup to renewables. **making real-zero energy simple, reliable and affordable.**

MODEL	POWER OUTPUT (kVA) ¹	USEABLE BATTERY (kWh)	HYDROGEN FUEL-CELL (kW)	STANDALONE ⁴ RUNTIME (HOURS) ^{2,3}		
				50% PEAK LOAD	75% PEAK LOAD	100% PEAK LOAD
H ₂ IPO-100 SE	110	130	80	∞	45.0	3.0
H ₂ IPO-200 SE	240	260	80	11.0	3.0	1.0
H ₂ IPO-200 Max	240	260	160	∞	∞	5.0

¹ MULTIPLE UNITS CAN SYNC FOR LARGER LOADS | ² MAX RUNTIMES SUBJECT TO USER SETTINGS. | ³ ASSUMES FUEL CELL RUNNING. | ⁴ MAX UNSUPPORTED BY INPUT SOURCES.

PRIMARY POWER OPTIONS



DIMENSIONS	2.10m (H) x 1.8m (W) x 4.1m (L)
WEIGHT	Up to 8,000 kg
FUEL-CELL	Low-temperature PEM
AC OUTPUT	400v 50Hz or 480v 60Hz
POWER INPUTS	3 x 120 (DC), 180kW (AC) or a mix
MONITORING	Modbus TCP, web portal & app
IP RATING	IP 43
H ₂ SUPPLY PRESSURE	9-17 barg (max 3.1g/s)
H ₂ PURITY	99.97% H ₂ (Type I Grade D, ISO14687)
H ₂ INTERFACE	Quick Connects (Hose can be provided)
H ₂ TRANSPORT	99kg H ₂ Trailers available
HEAT OUTPUT	~150 litres/min. at <65°C ⁴



POWERED BY TOYOTA'S HIGH PERFORMANCE PEM FUEL-CELLS



PRIORITY APPLICATIONS

Construction | Events | Film Sets | Remote communities | Mines
Military | Agriculture | EV Charging | Industrial | Grid support