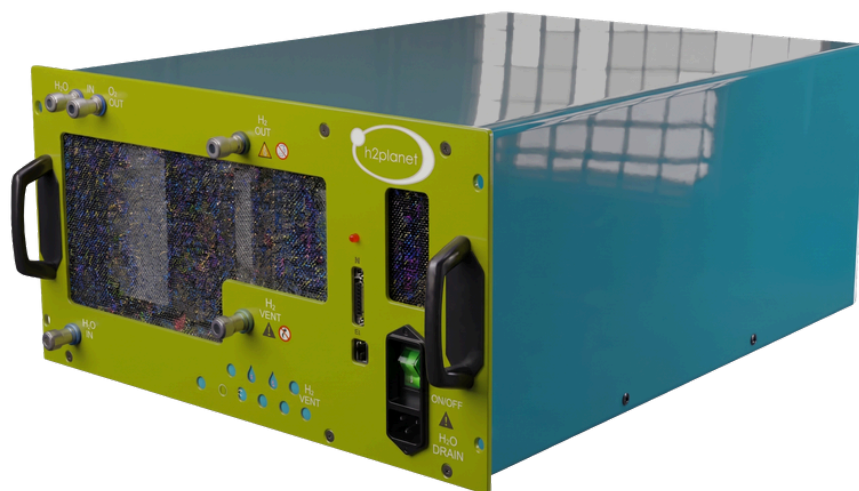
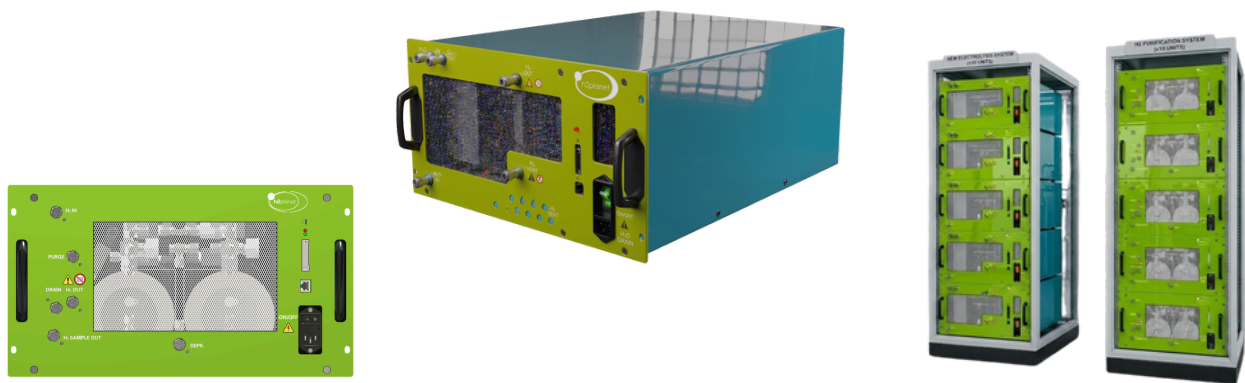




HY-ANION XP



HY-ANION XP



KEY FEATURES



The Hy-Anion XP 2 kW is a compact, high-efficiency electrolyzer module developed by H2PLANET for the flexible, on-site production of green hydrogen.



Designed in a 19" rack format (6U), the Hy-Anion XP integrates a compact stack, an electrolyte loop with an autonomous pump, a gas separation system, leak-monitoring sensors, and industrial telemetry.



The architecture is highly scalable and designed for easy maintenance, with connections located on the front panel, making it ideal for immediate integration into cabinets and energy containers.

TECHNICAL SPECIFICATIONS	HY-ANION XP	
Nominal Hydrogen (H2) Production	500 NI/h (approx. 1.08 kg/24h)	
Nominal Delivery Pressure	Selectable 10 bar or 35 bar	
Hydrogen Purity	≥ 99.0% (standard wet gas) / ≥ 99.999% (with optional dryer module)	
Operating Electrical Power	2.4 kW nominal (2.0 kW stack, 0.4 kW auxiliary BoP)	
Specific Energy Consumption	45 kWh/kg-H2 (at stack level) / 54 kWh/kg-H2 (complete system)	
Electrolyzer Efficiency (HHV)	88% BOL (Beginning of Life)	
Power Supply	AC 200–240 V single-phase (50/60 Hz), C19/C20 connector (16 A)	
Feedwater Quality	Deionized/demineralized water ≤ 1 µS/cm at 25°C	
Water Consumption	Approx. 0.55 L/h at nominal load	
Electrolyte	Potassium Hydroxide (KOH) diluted to 0.1–1 M, with forced circulation at 2–5 L/min	
Dimensions and Form Factor	482 mm (W) × 647 mm (D) × 266 mm (H) (Standard 19" rack, 6U height)	
Weight	51.3 kg (dry) / approx. 56 kg (with initial electrolyte charge)	
Communication & Control	Ethernet RJ45 (10/100BASE-T), Modbus TCP/IP and MQTT protocols	