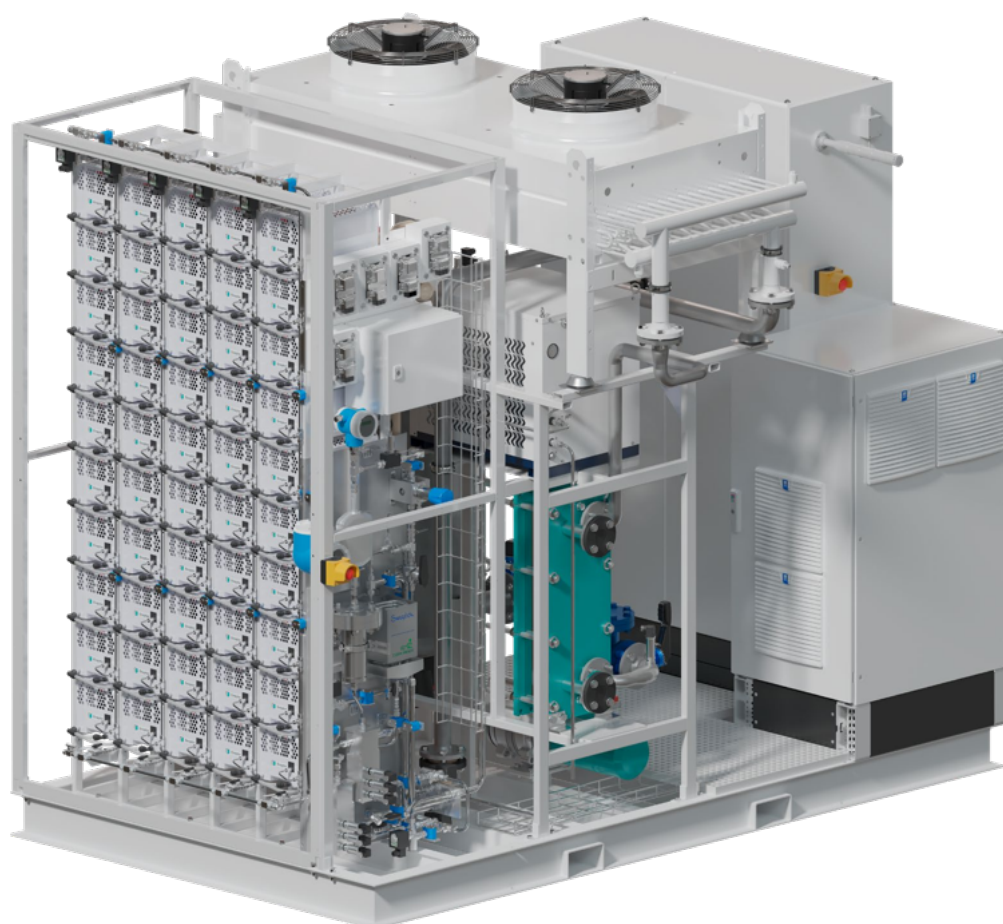


AEM FLEX 120



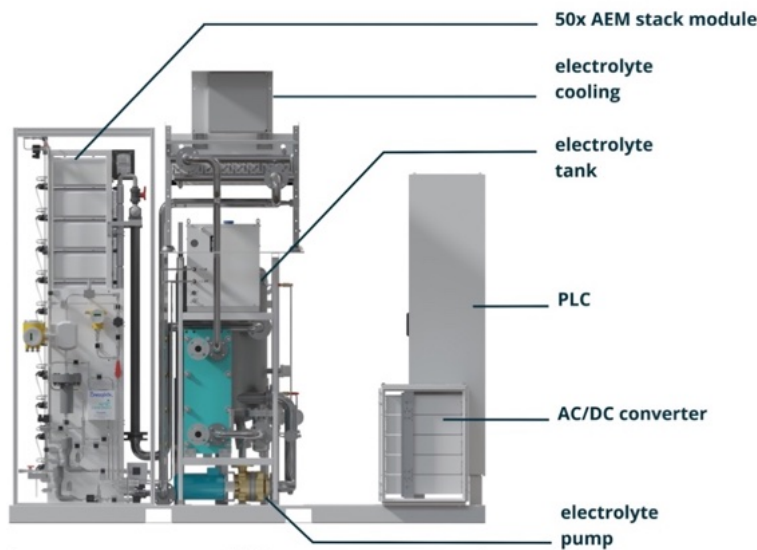
Key features

- ≡ Top system efficiency: <math>< 52 \text{ kWh/kg}</math>
- ≡ Fully automatic operation, AI optimized
- ≡ **Modular** architecture for max. redundancy
- ≡ Rapid reaction times to variable renewables
- ≡ Low maintenance requirements



AEM Flex 120

www.enapter.com/aem-flex-120



H₂ nominal flow	25 Nm ³ /h (2.25 kg/h)	Net volume flow rate With dryer 400g/h max H ₂ loss for regeneration
H₂ outlet pressure	Up to 35 barg	
H₂ purity	99.5% in molar fraction	Impurities: H ₂ O < 5000 ppm, O ₂ < 5 ppm
H₂ purity with optional chiller	99.95% in molar fraction	Impurities: H ₂ O < 500 ppm, O ₂ < 5 ppm
H₂ purity with optional dryer	99.999% in molar fraction	Impurities: H ₂ O < 5 ppm, O ₂ < 5 ppm
Specific power consumption (Efficiency)	4.61 kWh/Nm ³ H ₂ 51.3 kWh/kgH ₂	Including all utilities inside the battery limits @standard conditions*, 99.5% configuration.
Nominal power consumption	115 kW	Including all utilities inside the battery limits @standard conditions*, 99.5% configuration. 99.95% configuration + ~0.6kW 99.999% configuration + ~3kW
Voltage	400Vac 3ph+N+PE	± 10 %
Frequency	50 Hz	± 10 %
H₂O nominal consumption	23 L/h	Purified water
H₂O inlet purity (recommended)	Type II water Acidity < 0.1 meq/l	According to ASTM D1193-06 According to ASTM D1067 See Annex II – Detailed Process Description for details
Operational flexibility	12% – 100 %	Of nominal H ₂ flow rate
Hot startup time	0 – 100% in 170 seconds	Electrolyte valve open, solution circulating at ≥45°C
Cooling type	Liquid cooled	Optional air cooler available on request
Dimensions	3.2 × 2.2 × 2.78 m H = 2.58 m	(L x W x H) Without table cooler

*at full load, normal operation, BoL, 55°C electrolyte temperature and 15°C ambient temperature