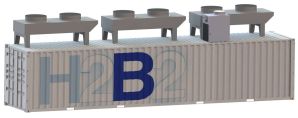

Main Characteristics	EL400N
Electrolysis Type	PEM (Proton exchange membrane, caustic free)
Number of Cell Stacks	2
Hydrogen Gas Production	
Max. Nominal Hydrogen Flow	414 Nm^3/h
Hydrogen Flow Range	5 -100%
Operating Pressure	15 - 40 barg (217-580 psig)
Hydrogen Purity (before Gas Purification)	> 99.9% ; < 5 ppm O_2; H_2O saturated
Hydrogen Purity (after Gas Purification)	99.999%; < 1 ppm O_2; < 1 ppm H_2O
Electrical Requirements	
Voltage	3 x 400 VAC ± 10% (3Ph+N) / 3 x 480 VAC ± 10% (3Ph+N)
Frequency	50 Hz ± 5% / 60 Hz ± 3%
Power (Bop + Stacks)	2,111.4 KW
Stack Consumption	4.7 kWh/Nm^3 H_2
AC Power Consumption (BoP + Stacks)	5.1 kWh/Nm^3 H_2
Tap Feed Water	
Consumption	480 l/hr
Conductivity	< 2,000 uS/cm (T 25 °C (77 °F))
Pressure	2-6 barg (29-87 psig)
Temperature	+5 °C to +40 °C (+41 °F to +104 °F)
Demineralized Water (after Water Treatment)	
Consumption	< 1 l/Nm^3 H_2
Quality	> 10 MΩcm (< 0.1 uS/cm); TOC < 30 ppb
Control System	
PLC	Fully automated and unattended with 15" color touch screen
Communication	Modbus TCP/IP or Profinet (RJ45 port)
Environmental Conditions	
Ambient Temperature Range	+5 °C to +45 °C (+41 °F to +113 ° F)
Humidity	0 to + 95% (non-condensing)
Air Ventilation	Available from a non-hazardous area
Installation Area	Outdoor
Dimensions and weight	
Dimensions (LxWxH)	40 ft container (12.0m x 2.4m x 2.9m) (40ft x 8 ft x 9.6ft)
Approx. Weight	20,000 kg (44,092 lb)
Standards & Regulations	
Compliance	CE, ISO 22734-1 / NFPA 2-2016 & NFPA 70
Other Characteristics	
Duty Cycle	100% (24/7)
Start-up Time (from Stand-by)	< 1 sec
Cold Start Time	< 5 min
Nitrogen Supply System	For each purge, consumption is <0.2 kg at 3 barg (to be supplied by the customer)
Instrumentation air System	Consumption 7 Nm^3/h at 10 barg (to be supplied by the customer)

Included	Additional Options
Hydrogen Purification System (SAE J2719 September 2011)	Oxygen Processing System
Water Treatment System	Instrumentation Air System
Hydrogen Cooling System	Nitrogen System
Emergency Shutdown System	
Overpressure Relief System	
Redundancy on Critical Safety Parameters	
Uninterruptible Power Supply (UPS)	
Hydrogen Mass Flow Measure	
Hydrogen Purity Measure (Moisture & Oxygen Sensors)	