Main Characteristics	EL100N
Electrolysis Type	PEM (Proton exchange membrane, caustic free)
Number of Cell Stacks	1
Hydrogen Gas Production	
Max. Nominal Hydrogen Flow	105.5 Nm^3/h
Hydrogen Flow Range	10 - 100%
Operating Pressure	15 - 40 barg (217-580 psig)
Hydrogen Purity (before Gas Purification)	> 99.9% ; < 25 ppm O_2; H_2O saturated
Hydrogen Purity (after Gas Purification)	99.999%; < 5 ppm O_2; < 5 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 + Stack)	538 kW
AC Power Consumption (BoP + Stack)	5.1 kWh/Nm^3 H_2
Feed Water - Tap Water (if Water Treatment Plant is included)	
Consumption	150.7 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)
Feed Water - Demi Water (if Water Treatment Plant is not included)	
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	Indoor/Outdoor
Dimensions and weight	
Dimensions (LxWxH)	40 ft container (12.0m x 2.4m x 2.9m) (39.4ft x 7.9ft x 9.5ft)
Approx. Weight	18,000 kg (39,683 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	**Extreme Environmental Conditions Package (Low and High Temp)**
Overpressure Relief System	
Redundancy on Critical Safety Parameters	
Uninterruptible Power Supply (UPS)	
Hydrogen Mass Flow Measure & Hydrogen Purity Measure (H_2O & O_2 Sensors)	
Heat Management (No Cooling Water is Needed)	