





Electrolysis Technologies	
Main Characteristics	EL60N
Electrolysis Type	PEM (Proton exchange membrane, caustic free)
Number of Cell Stacks	2
Hydrogen Gas Production	
Max. Nominal Hydrogen Flow	5.61 kg/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 ₂ O saturated
Hydrogen Purity (after Gas Purification)	As per ISO 14687
Electrical Requirements	
Voltage	3 x 400 VAC ± 10% (3Ph+N) / 3 x 480 VAC ± 10% (3Ph+N)
Frequency	50 Hz ± 5% / 60 Hz ± 3%
Total installed power	357 kW
Stack Consumption (*)	\leq 54.2 kWh/kg H $_{ m 2}$
AC Power Consumption (BoP + Stack) (*)	\leq 63.7 kWh/kg H $_2$ (357.4 kW Nominal Power @ BoL, 100% load)
Feed Water - Demi Water (optional Water Treatmen	t Plant is not included)
Consumption	< 1 L/Nm ³ H ₂
Conductivity	> 10 MΩcm (< 0.1 uS/cm); TOC < 30 ppb
Pressure	2-3 barg (29-43 psig)
Temperature	+5 °C to +40 °C (+41 °F to +104 °F)
·	+3 C (0 +40 C (+41 P (0 +104 P)
Control System PLC	Fully system stad and up standed with 150 soles to ush server
Communication	Fully automated and unattended with 15" color touch screen Modbus TCP/IP or Profinet (RJ45 port)
Environmental Conditions	
Ambient Temperature Range	+5 °C to +45 °C (+41 °F to +113 °F) 0 to + 95% (non-condensing)
Humidity Air Ventilation	0 to + 95% (non-condensing) Available from a non-hazardous area
Air Ventilation	Available from a non-nazaraous area
	Indoor/Odtdoor
Dimensions and weight	
Dimensions (LxWxH) Approx. Weight	40 ft container (12.0m x 2.4m x 2.9m) (39.4ft x 7.9ft x 9.5ft) 11,000 kg (24,250 lb)
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Standards & Regulations Compliance (**)	CE, ISO 22734-1 / NFPA 2-2020 & NFPA 70
Other Characteristics	CE, ISO 22734-17 NPPA 2-2020 & NPPA 70
Duty Cycle	100% (24/7)
Start-up Time (from Stand-by)	< 30 sec
Cold Start Time	< 30 sec
Nitrogen System	For each purge, consumption is <0.2 kg at >1 barg (to be supplied by the customer)
	Consumption 7 Nm^3 /h at 10 barg (to be supplied by the customer) Class V as per ISO 8573.1
Instrumentation Air System	Consumption 7 Nm /h at 10 barg (to be supplied by the customer) class v as per ISO 8573.1
(*) This value could be lower, depending on final configuration (**) H2B2 can accommodate to local standards if required	
Included	Additional Options
Hydrogen Cooling System	Oxygen Processing System
Emergency Shutdown System	Hydrogen Purification System (SAE J2719 September 2011)
Overpressure Relief System	Water Treatment System
Redundancy on Critical Safety Parameters	Extreme Environmental Conditions Package (Low and High Temp)
Uninterruptible Power Supply (UPS)	Hydrogen Mass Flow Measure & Purity Measure (H ₂ O & O ₂ Sensors)
Heat Management (No Cooling Water is Needed)	Instrumentation Air System
Virtual Private Network (VPN) connection	Nitrogen System