GREENLIGHT INNOVATION

E20 ETS

Electrolyser

Single Cell Test Station

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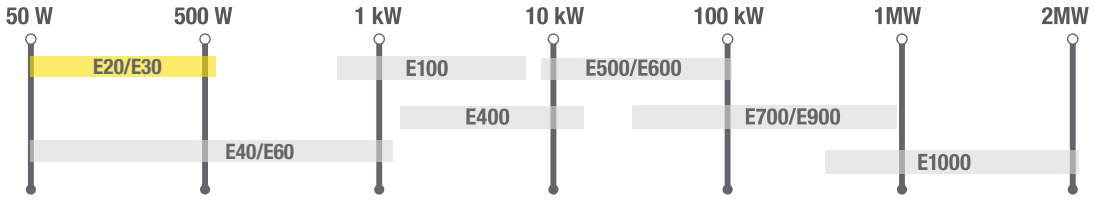
PEM and AEM Versions Available



Electrolyser Test Station Power Scale

- Power ranges from 50W to ~1KW
- PEM and AEM versions available
- Featuring Emerald™ control software
- Fully automated for unattended operation
- Easily expandable for additional I/O and diagnostic tools
- Inert gas purge system
- Available CE certificate of conformity

E20 ETS Features

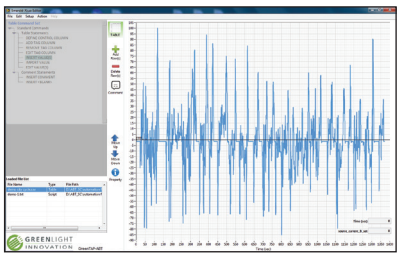
- Anode DI water supply
- DI water and gas separation on outlet
- Pressurized control on anode and cathode
- Automatic nitrogen purge on shutdown

Additional options include:

- Pre-pressurization
- Impedance spectroscopy
- Anode and cathode product gas analysers
- In-line oxygen and hydrogen gas sampling

Greenlight's ETS series sets the industry standard for both PEM and AEM electrolyser testing.

Emerald™ : Our flexible control software features a user-friendly interface, and is enhanced with our proprietary automation capability. The flexible Emerald™ scripting language allows complex script assembly within minutes for all types of users; from novices to experts.



Load Cycle Importer Graph

Includes 3 levels of safety:

1. Hard-wired interlocks with emergency stop
2. Factory software interlocks
3. User-configurable software interlocks (warning high/low alarms and shut-down high/low alarms)
   - N_2 purge
   - H_2 sensor
   - Optional safety enclosure

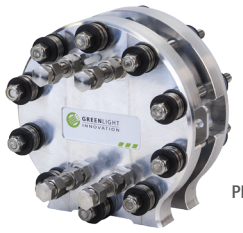
Specifications

POWER RANGE	50W - 1kW
WATER FLOWS	Anode DI water supply with automated flow control
PRESSURE CONTROL	Up to 6 bara (87 psia), with optional pre-pressurization
STACK COOLING	Anode DI water cooling with recirculation
POWER SUPPLY	Constant current, constant voltage with automated control
DATA ACQUISITION SYSTEM	Cell voltage and temperature
DIMENSIONS (L x W x H) approximate	712 x 1330 x 1945 mm (28 x 52.1 x 76.6 in)

Optional Electrolyser Test Hardware

Features include:

- Unique O-ring sealing technology for operating pressures up to 50bara
- Designed for MEAs of 50cm²
- Anodized aluminum end plates with titanium internal plates (optional coatings available)
- Designed for horizontal or vertical orientation
- Optional electrical cartridge heating



PEM Electrolyser Research Hardware

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