

DC Power Supplies

High Power Electrolyser Testing



Power Supply

Greenlight's series of high power, high accuracy DC power supplies can be paired with industrial scale electrolyser stacks

- Power levels from 100kW to 5MW
- Voltages from 0-800V, current from 0-30,000A
- Automated control through Greenlight's Emerald™ control software
- Power factor > 96%, with accuracy $\leq 0.05\%$

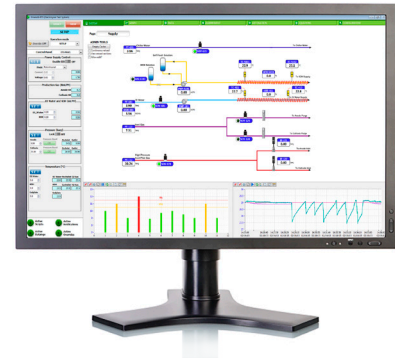
Electrolyser Power Supply Features

Nominal power output	100kW, 250kW, 350kW, 650kW, 1MW, 1.5MW, 2.5MW, 5MW (other values on request)
Rectifier type	IGBT
Power factor at nominal power	$\lambda > 0.96$
AC-Input voltage/ AC-Input frequency	380 / 400 / 440 / 480 / 500 / 690 V 3-phase, (N), PE, 50 / 60 Hz medium voltage connections available
Output voltage	min 0V up to various maximums: 200V/400V/600V
Output current	customized up to 30,000A
Control accuracy	voltage 0.5% fs, current 0.05% fs
DC Output Dynamic 0->100%	<100ms
Voltage ripple	$\leq 1\%$ FS
Current ripple	Typically, <2% FS
Stand-alone interface	Analog 0 - 10V / CAN-Bus Profibus, Modbus, Ethercat, Ethernet
Overall efficiency at nominal voltage/ nominal power	varies based on operating conditions - 92 to 98%
Allowable ambient temperature	>20 to 40°C
Cooling	water cooling
Protection class	IP20
Acoustic level (for IP20 enclosure)	71 to 78 db (A)



Automated Testing Software

- Highly configurable software for single or multiple test channels
- Ability to control multiple testing devices from a single user interface
- Enables users to run dynamic tests 24/7, completely unattended
- Up to four levels of privilege control (user access)
- Alarm notification sent via email and SMS
- Multi-language support



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