

Sinag Global
Sustains Life. Powers the Future.

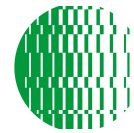
Electromagnetic Energy Flux Reactor - Stationary Power Generator

(Electromagnetic Energy Flux Reactor - Stationary Power Generator > EER-SPG)



As of 07/2025. Subject to change without notice.

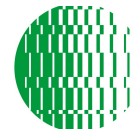




General

Nominal power	1,000 kW (1 MW)
Operating voltage	400 V AC / 50 Hz 480 V AC / 60 Hz
Annual energy yield	> 8,000 MWh (> 8 GWh)
Functional principle	Electromagnetism Faraday's law & BEMF conversion (principle of interaction, Newton's third law)
Energy source	Ions/electrons from the atmosphere
Modular & Scalability	Up to 400 MW per cluster
Running performance	Uninterrupted energy production 24/7/365
Design life	25-50 years
Application	Self-sufficient Decentralized or centralized Microgrids Independent of weather and seasons
Location	Independent of location
Emissions	No exhaust gases - no CO ₂
Immissions	Operating noise <60 dB(A)

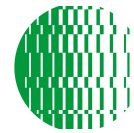




Reactor specifications

Nominal power	1,000 kW
Operating voltage	400 - 480 V AC
Voltage regulation	± 5
Response time	≤ 3 seconds
Excitation voltage	400 - 480 V AC
Frequency	45 - 65 Hz (programmable)
Control accuracy	± 0.01 seconds
Operating mode	Continuous operation (base load)
Cooling	Water-cooled system
Protection	IP 54
Reactor configuration	Multiple reactor system
Max. internal temperature	180°C
Insulation class	H / Class 180
EMI	0.4-0.5 μ T (microtesla)
Excitation source	Storage battery / small solar panel / small wind turbine / mains power





Energy converter PZGS 6X100IN-90

(Technical parameters)

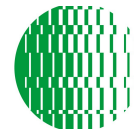
DC intermediate circuit

Minimum voltage	850 V
Maximum continuous voltage	1,100 V
Maximum interference voltage	1,250 V
Rated current	2,000 A

AC input

Nominal voltage	400 - 600 V AC (programmable)
Max. output power	1,200 kW
Rated power	1,000 kW
AC rated current	1,200 A
Max. AC rated current	1,750 A
Rated frequency	45 - 65 Hz (programmable)
PWM	4 kHz
THD	3.00





General

Technology

Patented worldwide - US Patent No. 9,444,264 B2

Tested and validated by NPC

DNV-GL certification*

Protective function

DC voltage surge protection

AC voltage surge protection

Over-temperature protection Heat sink

Overtemperature protection LC filter

Undervoltage protection AC voltage input

Frequency deviation protection (overfrequency and underfrequency)

Overcurrent protection AC voltage input

Short-circuit protection on AC side

Ambient conditions

IP protection class IP56

Ambient temperature for normal operation 0 - 45°C

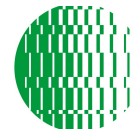
Max. ambient temperature 50

Relative humidity, non-condensing 15 - 95

Maximum installation altitude 2,000 m above sea level

** Certification to be completed in 2025*





Sinag Global
Sustains Life. Powers the Future.

Product dimensions

Height	2.80 m
Width	6.80 m
Depth	1.20 m
Weight	12,600 kg

Features

Seamless transfer of operations	On → Off → On Off → On → Off
Type of power supply	Continuous operation / base load
Power plant size	Modularly scalable up to 400 MW per cluster
Modularity	Up to 4 units can be stacked on top of each other Freely modularly scalable
Grid feed-in	Seamless self-sufficient or grid feed operation
Direct use	Seamless, grid-independent operation

