

EXERON - THE OFF-GRID BEAST

Unique system technology for distributed energy generation

EXERON – the system concept



HIGHLIGHTS

The system can combine effectively the power from different energy sources like sun, wind, diesel generator and grid. The energy surplus is stored in battery for further reuse.

- EXERON provides power independence for areas with limited or no grid power.
- Up to 98% OPEX cost savings for loads running on diesel generator.
- Complete diesel generator replacement is possible.

ADVANTAGES

- Full integration of all types of modules – MPPT chargers, rectifiers, inverters, DC-DC converters
- Unique communication protocol allows parallel connection of up to 65 MW modules (each 2 kW)
- Self-diagnostic and failure prevention through advanced IPS software
- Extreme redundancy through load sharing between the modules
- Extremely fast MPP tracking algorithm leading to 12% efficiency improvement
- MPP tracking covers the full input range which leads to 14% efficiency improvement
- Intelligent diesel generator control, automatic and manual bypass
- Intelligent power input prioritizing
- Small and light, hot pluggable power modules – MTTR < 10 s
- Unlimited parallel connection of battery strings through virtual charger outputs
- Unique battery management software extend the battery life with 30% on average

Technical data and standard configurations

Each configuration includes MPPT/DG charge controllers, inverters and MCU

PV Input (DC)	
Uoc, (min ... max)	140 V ... 450 V
UMPPT, full input range	140 V ... 450 V
Max PV-power per 1 SML2000	2000 Wp
MPP tracker number per 1 SML2000	1
Max number of MPP trackers	N x SML2000
Max system input power capacity	32.7 MW, (16384 x 2000 W)
DG/Grid Input (AC)	
Voltage	230 V / 110 V (1/3 phase)
Frequency	50/60 Hz
Output (AC)	
Voltage	230 V / 110 V (1/3 phase)
Voltage form	Pure sine wave
Power, nominal	N x 4000 VA
Max system output power capacity	65 MVA, (16384 x 4000 VA)
Battery	
Voltage	48 V
Max system battery capacity	315 MWh
Other specifications	
Remote monitoring and control	SNMP, web based, cloud based
Ambient temperature	-40°C ... +80°C



EXERON

From 2 kW to 24 kW



EXERON FX

From 2 kW to 12 kW



EXERON MX

SCALABLE
FROM 2 kW
UP TO 65 MW

From 2 kW to 4 kW



EXERON SX