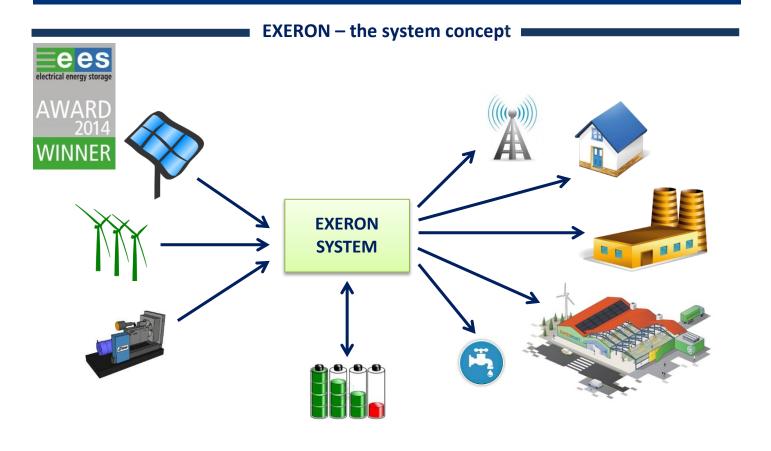


# **EXERON** - THE OFF-GRID BEAST

Unique system technology for distributed energy generation



#### **HIGHLIGTHS**

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</li>
- 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
Uмррт, 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





## **SCALABLE** FROM 2 kW **UP TO 65 MW**

From 2 kW to 4 kW



**EXERON SX** 

From 2 kW to 12 kW



**EXERON MX** 

From 2 kW to 24 kW



**EXERON FX**