

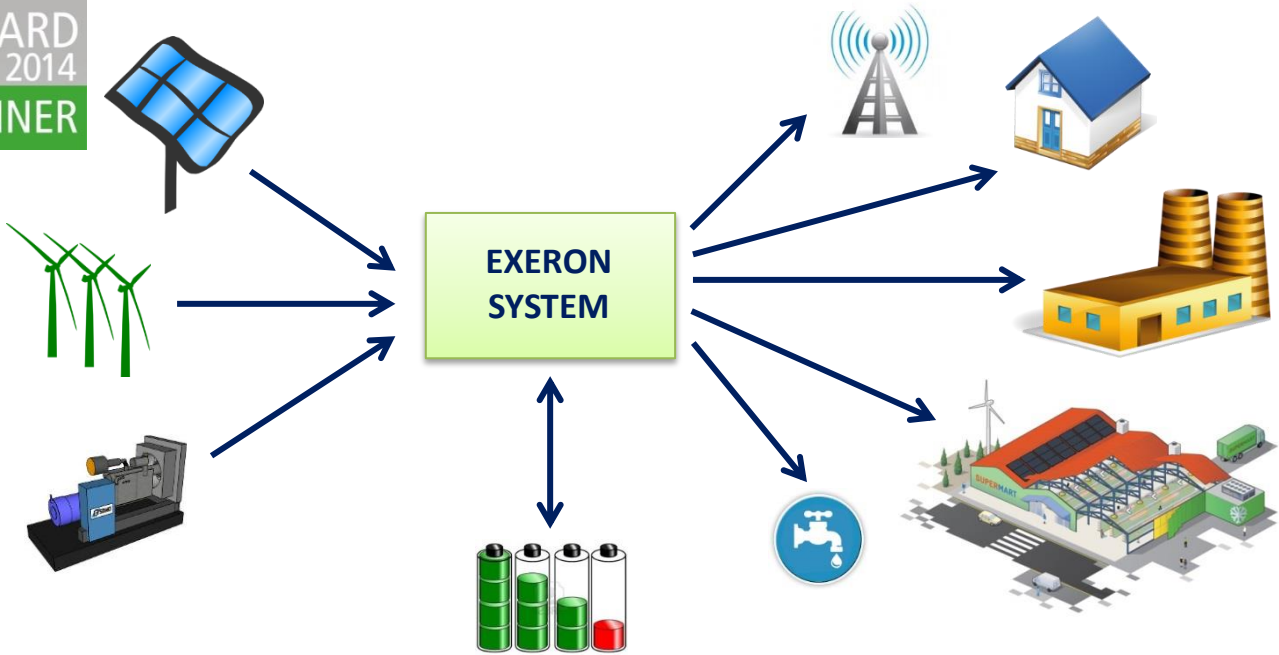
# EXERON - THE BEST OFF-GRID SYSTEM EVER

From 2 kW up to 65 MW power output. Unlimited energy storage.

## Exeron – the system concept



The best hybrid system with energy storage.  
Worldwide.



*“And that is far from the best we can do.” – IPS Team*

### HIGHLIGHTS

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

- Exeron ensures power independence for areas with limited or no grid power.
- Up to 98% OPEX cost savings for objects running on diesel generator.
- Best diesel replacement solution.

### ADVANTAGES

- Full integration of all types of modules – MPPT chargers, rectifiers, inverters
- Unique communication protocol allows parallel connection of up to 65 MW modules (each 2 kW)
- Self-diagnostic and failure prevention through special 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
- AVR and automatic start/stop of diesel gensets, automatic and manual bypass
- Intelligent power input prioritizing
- Small and light hot plug power modules – MTTR < 10 s
- Unlimited parallel connection of battery strings through virtual charger outputs
- Extend the battery life with more than 3 years or 1200 cycles

# Technical data and standard configurations

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

PV Input (DC)	
U <sub>oc</sub> , (min ... max)	140 V ... 450 V
U <sub>MPPT</sub> , 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	220 V / 110 V (1/3 phase)
Frequency	50/60 Hz
Output (AC)	
Voltage	220 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	Yes
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