

# EXERON zero

Pure Off-Grid or Hybrid. 1 zero = many advantages.



zero space zero maintenance zero electricity bills

The superb technology of its big brother EXERON now transferred into the mini standalone model for various OFF-GRID applications. A perfect combination: nice and light design + variety of features = zero

## HIGHLIGHTS

- ✕ MPPT charger + Grid/DG rectifier + Inverter
- ✕ Pure off-grid with PV or Hybrid with Grid/Diesel input
- ✕ Quick installation < 5 min
- ✕ Modular structure in the inside
- ✕ Fully unified bidirectional system
- ✕ High efficiency switch mode technology
- ✕ Battery Care technology extends the battery life
- ✕ Intelligent fuel safe functionality for diesel generators
- ✕ Special battery charging algorithm with current control
- ✕ Self-diagnostic and failure prevention through special IPS software
- ✕ Full integration of all types of modules – MPPT chargers, rectifiers, inverter
- ✕ AVR and automatic start/stop of diesel genset, automatic and manual bypass
- ✕ Extremely fast MPP tracking algorithm leading to 12% efficiency improvement
- ✕ MPP tracking covers the full input range which leads to 14% efficiency improvement



# Technical data

MODEL No.	P2	P4	H2	H4	
Total system power	2 kW	4 kW	4 kW	8 kW	
<b>PV input</b>					
PV input power, max	2 kWp	4 kWp	2 kWp	4 kWp	
Max PV power per string	2 kWp				
Number of PV strings, max	1	2	1	2	
Number of MPP tracker	1	2	1	2	
PV input voltage $U_{oc}$ , (min ... max)	140 V ... 450 V				
MPPT voltage $U_{MPPT}$ , full input range	140 V ... 450 V				
<b>AC input</b>					
AC input power (Grid/Diesel), max	-	-	2 kW	4 kW	
AC input voltage	-	-	230V / 120V	230V / 120V	
AC input frequency			50Hz/60Hz	50Hz/60Hz	
Bypass (AC input/output)	Optional				
<b>AC output</b>					
Output power	2 kVA	4 kVA	2 kVA	4 kVA	
AC output voltage	230V / 120V	230V	230V / 120V	230V	
AC output frequency	50Hz / 60Hz				
AC output voltage form	Pure sine wave				
<b>Battery</b>					
Battery voltage	48 V				
Battery type, capacity	Lead-Acid / NiCad, 60 Ah ... 5000 Ah				
Battery charging current, max	40 A	80 A	40 A	80 A	
Battery charging type	Intelligent				
<b>General data</b>					
Remote monitoring	Optional (FiFo Monitoring™)				
PV modules compatibility	Polycrystalline / Monocrystalline / Thin film				
Diesel generator smart control	Optional				
Parallel connection of Zero systems	Optional				
Cooling	Intelligent Coolflow™ temperature management				
Efficiency, max	94%				
Type of application	Indoor				
Mounting	Wall				
Mounting kit	Included				
Ambient temperature	-30°C ... +70°C				
Dimensions (WxDxH) in mm	system	445x185x490			
Weight	system	21 kg	23 kg	22 kg	24 kg
Schematic					