

Femtogrid Inverter Inverter 2400 (Galvanic Isolation)

femtogrid
energy solutions



IMAGINE A SOLAR INSTALLATION. MADE BETTER.

Unequal power output of solar panels due to partial shading, suboptimal orientations or panel mismatch is a big problem for solar installations using serial string inverters. Femtogrid solves this problem and our Femtogrid Inverter 2400 subsequently feeds the solar energy produced efficiently into the mains.

Femtogrid Inverter 2400

- 400 Vdc in, 230 Vac out
- Single phase
- Galvanic isolation
- Safetyline of 48 Vdc feeds the DC grid
- Smart grid prepared
- DC and AC parallel mode
- Web-based monitoring using ZigBee



Femtogrid Solar: the sunny side of shade

FemtoGrid Inverter

Inverter 2400 (Galvanic Isolation)



Our goal is to transform sustainable energy installations for the built environment by **optimizing** the system **performance** and at the same time by **reducing costs** and **complexities**.

The FemtoGrid Inverter 2400 is a single phase isolated inverter and must be used together with:

- FemtoGrid Solar Power Optimizer
- FemtoGrid Cabling
- FemtoGrid Monitoring

Specifications

Solar Input (DC from solar panels)		
Maximum DC power	2550	Wdc
Recommended PV Power range	500 - 3000	Wdc
Nominal DC operating voltage	360 - 400	Vdc
Minimum input voltage for rated output	380	Vdc
Maximum DC current	6.7	Adc
MPPT	@FemtoGrid Solar Power Optimizer	
Isolated transformer	Galvanic isolation	
Mains output (AC)		
Maximum AC Power (@tamb 25°C)	2400	Wac
Nominal AC Power	2200	Wac
Nominal output voltage range (country specific)	184 - 265	Vac
Maximum output current (continuous)@230 V	10.5	Aac
Maximum efficiency	96	%
Efficiency, European related (Euro ETA)	94.6	%
Power factor	1	
Frequency (country specific)	45 - 55	Hz
Standard Compliance		
EMC: Immunity	EN61000-4-2/3/4/5/6/11	
EMC: Emission	EN55022/EN60601-1-2	
	EN55022/EN61000-3-3	
Grid connection standards	NEN-EN 50438/VDE0126-1-1	
CE/RoHS/WEEE/REACH	Yes	
Safety class	Class I	
Degree of protection	IP31	
Temperature protection	>80	°C
General		
Wireless communication	ZigBee	
Dimensions (WxLxH)	323x202x646	mm
Ambient temperature	0 - 40	°C
Weight	38	kg
DC connections	Custom made by Wieland for FemtoGrid	Type
Output connections	Wieland	Type
Area of application	Indoor	