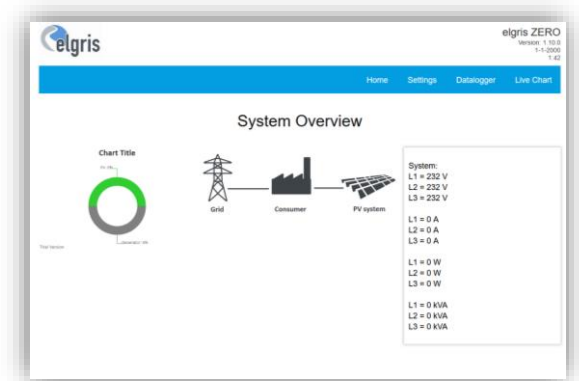


# ZERO EXPORT

## Optimal self-consumption management



- **All-in-one solution: 3 phase energy meter, datalogger and controller in one compact device**
- **ZERO EXPORT control or specific power limit (70% EEG)**
- **Real-time control and monitoring of up to 10 different inverters**
- **Easy to use web interface for configuration and USB data-logging**

With the revolutionary elgris “ZERO EXPORT” solution the amount of solar energy is controlled to prevent export to the grid.

Alternatively, a specific user-defined limit, either import or export can be set to limit the export to the grid or have a minimum import from the grid.

The system can be operated with single-phase or three-phase system and can control up to ten different types of inverters and manufactures. This number can be increased when using an external datalogger.

The “ZERO EXPORT” has a real-time control which can be adopted with an easy to use web interface. The interface provide the actual and the historical consumption of grid and solar power via a graphic illustration.

The controller records the data for later evaluations on an USB medium. By using intelligent switching of loads with user adoptable thresholds, the self consumption can be maximized.

# Technical overview

GENERAL DATA	
AC power supply	80 – 277 Vac
Data interfaces	Ethernet (RJ45) for inverter control and internet connection Optional RS-485 (RJ45) for inverter control
Energy measurement	3 current inputs 0 – 5 A / 3 inputs for 100 A current clamps 4 voltage inputs (L1, L2, L3 N) 0 – 277 Vac Measurement interval: 1Hz
USB interface	Datalogging, Firmware update
Enclosure	DIN rail mounting with PUR protection
Dimensions W x H x D	90 x 80 x 45 mm
Weight	200 g
Protection degree	IP20
Ambient temperature range	-25 – 60 °C
FEATURES	
Power limitation	Feed-in limit as percentage of AC power or solar generator power Feed-in limit absolute in kW (70% EEG) Zero feed-in to grid Minimum energy consumption from grid Single phase or 3-phase control
Settling rate	20 ms
Sampling rate	8 kHz
Datalogging	Storage of measurement values each minute on USB stick USB memory usage: ~150kB/day Connection to monitoring portal Automatic internet time via SNTP protocol
Intergrated web pages	Graphic of solar power vs. Grid consumption Graphic of actual values (solar power, grid consumption) Configuration page
Certificates	CE

