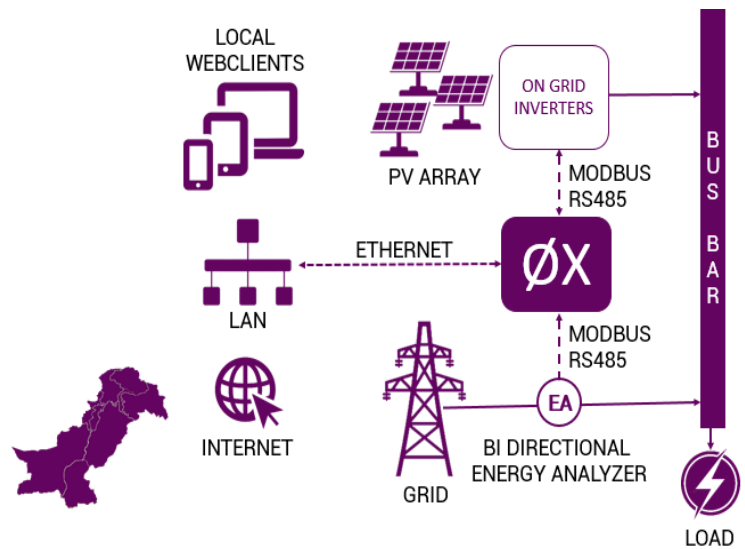


- ✓ Control up to strings of 30 inverters
- ✓ Option for 1 Phase / 3 Phase systems
- ✓ All in ONE device (Zero Export + Monitoring + Logging)
- ✓ Configure using built-in web server
- ✓ Supports integration of energy analyzers from commonly available brands in Pakistan (RS485 comm. Option required)
- ✓ 1 year hardware replacement warranty
- ✓ Best in class reliable and certified imported hardware
- ✓ Flexible pricing model
- ✓ Proudly programmed in **Pakistan** by Pakistani Engineers
- ✓ Highly customizable per your most challenging requirements



Zero Export Controller for On Grid Solar Inverters

Zero Export Controller for On Grid Solar Inverters offers an advanced easy-to-use control solution for grid connected solar systems with export limitations. In Pakistan, challenge is that you have to install “on grid” solar system first and then apply for WAPDA net metering. WAPDA may be able to change existing meter with a net metering enabled meter. This may take from 3 months to a year. Now that is a serious problem as the reverse power from excessive solar production leads WAPDA meter to count it as if grid has supplied electricity to the user. User has to pay excessive electricity bill to the Grid.

Unique benefits of Energy^{PK} Zero Export Controller

- ✓ Unique benefits of the Energy^{PK} Zero Export controller are:
- ✓ Single component solution (Webserver + Controller + Datalogger)
- ✓ Solar inverter independent
- ✓ Real-time control of up to 10 different inverter
- ✓ Easy to use web interface for configuration and monitoring
- ✓ Flexible pricing models, you only pay for what you want
- ✓ 1 year hardware replacement warranty
- ✓ Best in class reliable and certified imported hardware

Features of Energy^{PK} Zero Export Controller

With Energy^{PK} Zero Export controller, you have a various options to regulate your solar energy. EnergyPK Zero Export is the first of its kind device in Pakistan that

- ✓ Integrates locally available energy analyzers from pretty much all major OEMs like Entes, Schneider Electric, Lovato, Janitza, Zeigler e.t.c

- ✓ Integrates mains sync controllers from SICES, DEEPSEA, COMPAPP e.t.c for Zero Export Controller application
- ✓ Can control upto string of 30 inverters of various types
- ✓ Acts as PV Zero Export controller
- ✓ Webserver + Controller + Datalogger in one device
- ✓ Prevents power feed-in to the grid
- ✓ Three phase or Single phase option

Functional Details

With increasing utility regulations for export control in residential and medium size commercial PV systems, the Energy^{PK} Zero Export controller is the perfect solution!

Export limitation means that the amount of solar energy in the system is controlled by adjusting the set point of the inverters in the system. The separately installed energy analyzer measures the total power at the point of coupling and compares this with the adjustable set point of the controller. When the consumption from the grid is above this set point, the solar energy will be increased, when the consumption is below this set point, the solar energy will be reduced.

Provides real-time control with an easy to use web interface. Provides 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 (optional).

Supported Inverters

The Zero Export controller supports a large number of different inverter manufacturers

On Grid Solar Inverters



Please inform for other inverters since the supported inverters list is growing every day!

Working principle

Export limitation refers to minimizing the amount of excess power from a PV system being delivered to the grid. Zero feed-in means no excess PV power is delivered to the grid.

Export to the grid = Produced solar energy > Consumption from the grid

The Zero Export controller measures in real time the power flowing in the system and adjusts the set point of the solar system accordingly. In case of energy flow towards the grid, the Energy^{PK} Zero Export will reduce the solar system. Installation uses all solar energy, when there is a positive balance in the system.

With the Zero Export Energy^{PK} offers the first inverter independent solution to dynamically control the solar energy output from the inverter and thus optimize the total system reducing the total cost.