HYDRA

INVERTERS CHARGERS

elpra sa

power electronics

HYDRA GC series **are advanced technology, high efficiency power inverters / chargers, able to work in all four operating quadrants, with full sinusoidal voltages and currents, in grid connected or island modes.**

They are designed to provide all the necessary functions and utilities, which offer a fully automated user friendly and care free operation.

ELPRA SA **INDUSTRIAL AREA OF THERMI**

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HYDRA GC series have two main and distinct operating modes. They function either as:

- **Stand-alone Inverter,** supporting local loads, or as
- **Grid Connected system,** able to have bi-directional energy flow.
- ***HYDRA*** may either absorb energy from, or sell energy to the power grid.
- ***HYDRA*** supports uninterruptedly local charge equal to its nominal power connected at its output, when no grid is present, working as an autonomous system.
- ***HYDRA*** charges the connected batteries from the external ac power source with a power factor almost equal to unity.
- When no local batteries are present, ***HYDRA*** may be programmed to sell energy to the power grid optimally, tracking the maximum power point of the connected renewable energy source (MPPT).
- ***HYDRA*** includes zero transfer time power switch to support the local load, working as an **on-line ups**.
- ***HYDRA*** includes an 8 A contact to support voltametric charge controller function either locally, or by driving external relays for higher currents.
- ***HYDRA*** includes software and appropriate contacts to start and stop external power generators.
- ***HYDRA*** includes advanced sensing software as well as two automatic switches (electronic and electro-mechanical) to isolate the external power grid in case of low quality or loss of the grid.
- ***HYDRA*** includes an isolated RS-232 output, as well as complete software for Windows environment, for monitoring, recording and printing all the operational parameters, including cumulative energy flow to and from the power grid.

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