

# Solar inverter on grid Portugal

The electrical grid operates on 230 Vac 50 Hz in Portugal, and AIMS Power inverters are the solution for off-grid, mobile and/or backup electricity there. AIMS Power provides products to help residents of Portugal achieve energy independence, we'll deliver them right to your doorstep for the cheapest price possible.

Grid-tie inverters are used between local electrical power generators: solar panels, wind turbines, hydroelectric, and the grid. To inject electrical power efficiently and safely into the grid, grid-tie inverters must accurately match the voltage and phase of the grid sine wave AC waveform.

For off-grid solar systems, off-grid inverters don't have to match phase with the utility sine wave as opposed to grid-tie inverters. Electrical current flows from the solar panels through the solar charge controller and the battery bank before it is finally converted into AC by the off-grid inverter.

Por que escolher a SMA Portugal para seus projetos de sistemas fotovoltaicos? Escolha segurança SMA garante qualidade imbatível garantindo vida útil máxima e falhas mínimas dos sistemas e soluções.

**RESIDENTIAL SOLAR ENERGY.** There are 3 different options in Portugal for residential solar systems: **SELF CONSUMPTION ON GRID; SOLAR ON GRID WITH LITHIUM BATTERIES; SOLAR OFF GRID WITH LITHIUM BATTERIES;** See below for information on each option and what possibilities they offer.

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