

Declaration of Conformity

SolarMax Produktions GmbH
Zur Schönhalde 10
D-89352 Ellzee

hereby declares that the photovoltaic grid-connected inverter, model

SolarMax _____ **Serial Number:** _____

complies with the regulation established by the Spanish Royal Decree 661/2007 (including RD 1699/2011, RD 154/1995 and RD 1580/2006) on “photovoltaic grid-connected systems”, and particularly with the following technical specifications:

- Modes of operation for personal safety and system protection in conformance with the Spanish Royal Decree RD 661/2007 (including RD 1699/2011).
- Features internal interconnection contactor relays or contactors for disconnecting automatically and protecting the grid, if the limits below are exceeded:

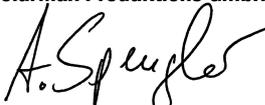
Parameter	Limit	Disconnection time
f_{max}	50.5 Hz	500 ms
f_{min}	48 Hz	3000 ms
$U_{ac\ max\ 1}$	$U_n \times 1.1$	1500 ms
$U_{ac\ max\ 2}$	$U_n \times 1.15$	200 ms
$U_{ac\ min}$	$U_n \times 0.85$	1500 ms

The PV inverter automatically reconnects after 180 seconds once the grid parameters are within the specified range.

- Features a protection function against islanding situations.
- The disconnection and reconnection of the inverter to the mains is established by integrated, software-controlled relays or contactors.
- These settings are only valid if the country setting “Spain” or “Spain LV” is selected. The settings cannot be modified by the user.
- Features a temperature sensor for protection against dangerously high temperatures.
- The TS series inverters feature galvanic isolation achieved by an isolation transformer between the mains and the photovoltaic generator. The 330/360TS-SV inverters must always be connected to a medium-voltage transformer that ensures galvanic isolation.
- The P- and MT-series inverters feature an electro-mechanical isolation between the distribution grid and the entire photovoltaic system. The internal control and protection functions are operated by the isolation switch.
- The DC current injected into the distribution grid by the inverter mentioned above does not exceed 0.5 % of its nominal AC current. Tests according to the “Nota de Interpretación técnica de la equivalencia de la separación galvánica de la conexión de instalaciones generadores en baja tensión”, issued by the Ministry of Industry, have been performed successfully.
- Features an isolation resistance monitoring function on the DC side.

Ellzee, 22/08/2016

SolarMax Produktions GmbH


Anton Spengler, CEO

