

## DECLARATION OF ANTI ISLANDING PROTECTION

We, **Hoymiles Power Electronics Inc.**, No.18 Kangjing Road, Hangzhou 310015, China, declare under our sole responsibility that the products

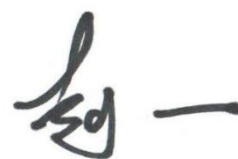
**PRODUCT: PV Microinverter**  
**MODEL: HMS-300BM,HMS-350BM,HMS-400BM,HMS-450BM,HMS-500BM**

to which this declaration relates, fulfill the requirements, including the Anti Islanding Protection, required by the Greek Energy Supply Industry.

1. The connection and disconnection of the microinverter to the point of power injection are done with internal relays, which are controlled by software with these features:
  - a. an automatic connection/reconnection to the grid in case the voltage and frequency within the range of  $0,8 \cdot U_{nom} - 1,15 \cdot U_{nom}$  and 49,5 Hz - 50,5 Hz.
  - b. an immediate disconnection if the voltage or frequency are out of the range.
  - c. the setting values cannot be accessed by the end-user.
2. The connection time and reconnection time after clearance of grid fault is not shorter than 180 seconds.
3. The injected DC current into the grid is less than 0,5% of nominal current.
4. The total harmonic distortion of the output current is less than 5%.
5. In addition to the passive protection, an Active Anti Islanding protection according to VDE 0126-1-1 is implemented. The pattern detection method injects reactive current pulses and analyses the resulting frequency behavior. The Anti Islanding protection trip time is shorted than 5 seconds.

This Declaration of Conformity is not valid any longer, in case, without any written authorization by Hoymiles Power Electronics Inc.:

- The product is modified, supplemented or changed in any other way
- The product is used or installed improperly.



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**Open Energy for All**

Yi Zhao, Vice President.

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Hangzhou, China

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