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ENPHASE ENERGY
Pettelaarpark 84 (2nd floor)
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**SUPPLIER STATEMENT
BALEARIC and CANARY ISLANDS SETTINGS**

The undersigned hereby declares that Enphase Energy designated photovoltaic microinverters and batteries:

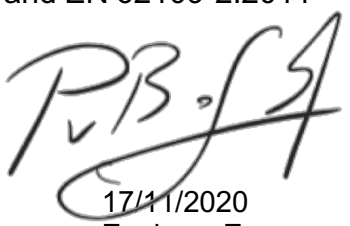
**IQ7-60-X-Y-INT
IQ7PLUS-72-X-Y-INT
IQ7A-72-X-Y-INT
IQ7X-96-X-Y-INT
IQ7-B1200-LN-I-INT01-RV0 (ACB 1.5)**

Are configurable according to the following regulations:

- **RD 1663/2000**, regulating connection of photovoltaic installations to the low voltage grid.
- **RD 661/2007**, regulation electricity production through a special feed-in tariff scheme.
- **RD 1699/2011**, regulating grid connection of small capacity electricity production plants.
- **RD 413/2014**, regulating the activity of electricity production from renewable energy, cogeneration and waste.

This supplier statement is supplemented by the following relevant appendices:

- Supplier-specific parameters table according to **EN50438:2013 Balearic and Canary Islands** grid profile
- CE statement of conformity
- VDE Certification according to EN 62109-1:2010 and EN 62109-2:2011


Date : 17/11/2020
Company: Enphase Energy
Name: Peter van Berkel
Position: GM Enphase Energy EMEA

**DECLARACIÓN DEL FABRICANTE
CONFIGURACIÓN PARA ISLAS BALEARES Y
CANARIAS**

El abajo firmante declara que los microinversores fotovoltaicos y baterías de Enphase Energy señalados a continuación:

**IQ7-60-X-Y-INT
IQ7PLUS-72-X-Y-INT
IQ7A-72-X-Y-INT
IQ7X-96-X-Y-INT
IQ7-B1200-LN-I-INT01-RV0 (ACB 1.5)**

Son configurables de acuerdo con las siguientes normativas:

- **RD 1663/2000**, sobre conexión de instalaciones fotovoltaicas a la red de baja tensión.
- **RD 661/2007**, por el que se regula la actividad de producción de energía eléctrica en régimen especial.
- **RD 1699/2011**, por el que se regula la conexión a red de instalaciones de producción de energía eléctrica de pequeña potencia.
- **RD 413/2014**, por el que se regula la actividad de producción de energía eléctrica a partir de fuentes de energía renovables, cogeneración y residuos.

Esta declaración del fabricante se complementa con los siguientes apéndices correspondientes:

- Tabla de parámetros específicos acorde con el perfil de red **EN50438:2013 Balearic and Canary Islands**
- Declaración de Conformidad CE
- Certificado VDE de acuerdo con la normativa EN 62109-1:2010-07 y EN 62109-2:2011-09

EN50438:2013 Balearic and Canary Islands

Parameter Name	Value	
GRID SPECIFICATION		
Reference voltage	230.0 V	
Nominal frequency	50.00 Hz	
VOLTAGE LIMITS		
Over voltage disconnect	Time	Magnitude
Limit (fast)	200 ms	264.50 V
Limit (slow)	1,500 ms	253.00 V
Average over voltage		253.00 V
Under voltage disconnect	Time	Magnitude
Limit	1,500 ms	195.50 V
Reconnect voltage		Magnitude
High		253.00 V
Low		195.50 V
FREQUENCY LIMITS		
Over frequency disconnect	Time	Magnitude
Limit	3,600,000 ms	51.00 Hz
Under frequency disconnect	Time	Magnitude
Limit	3,000 ms	47.50 Hz
Reconnect frequency		Magnitude
High		50.05 Hz
Low		48.05 Hz
RECONNECT		
Start / Reconnect time	60 s	
Anti-islanding reconnect time (short)	60 s	

Parameter Name	Value
Anti-islanding reconnect time (long)	60 s
Apply limits after voltage trip	Yes
Apply limits after frequency trip	Yes
Apply limits after anti-islanding trip	Yes
Apply limits after rate of change of frequency trip	No
Apply limits after vector shift trip	No
RAMP RATES	
Soft-start ramp rate	0.17 %/s
DC CURRENT INJECTION	
DC current injection mode	Fast
ISLANDING DETECTION	
Islanding detection enabled	Yes
OVER FREQUENCY POWER LIMIT	
Over frequency power limit enabled	Yes
Start frequency	50.20 Hz
Ramp down rate	40.00 %/Hz
Hysteresis	No
Ramp up frequency (max)	50.20 Hz
Ramp up frequency (min)	47.50 Hz
Ramp up delay time	0.0 s
Ramp up rate	0.170 %/s
Ramp up rate (low)	0.170 %/s