SMA Solar Technology AG | Sonnenallee 1 | 34266 Niestetal | Germany
Phone: +49 561 9522-0 | Fax: +49 561 9522-100 | Internet: www.SMA.de | E-Mail: info@SMA.de
Amtsgericht Kassel (District court) Kassel HRB (registration number) 3972
Vorsitzender des Aufsichtsrats (Chairman of the Supervisory Board): Dr. Erik Ehrentraut
Managing Board: Ulrich Hadding Dr.-Ing. Jürgen Reinert, Pierre-Pascal Urbon

Manufacturer's Declaration

Supplier statement to the polish standard "*Karta aktualizacji nr 2/2018 Instrukcji Ruchu i Eksploatacji Sieci Dystrybucyjnej (Revision Sheet no. 2/2018 of the Distribution Grid Code)*" (KA2:2018), February 2018

- SB1.5-1VL-40, SB2.5-1VL-40
- SB3.0-1AV-40, SB3.6-1AV-40, SB4.0-1AV-40, SB5.0-1AV-40
- STP 5000TL-20, STP 6000TL-20, STP 7000TL-20, STP 8000TL-20, STP 9000TL-20, STP 10000TL-20, STP 12000TL-20
- STP 15000TL-30, STP 20000TL-30, STP 25000TL-30

SMA inverters described above comply with "*Revision Sheet no. 2/2018 of the Distribution Grid Code*" subject to the fulfillment of the following issues, if applicable:

1. The present Polish standard includes requirements which are covered in the AR-N-4105:2011 and EN 50438:2013. SMA inverters have been tested in accordance with both aforementioned standards. Compliance certificates are available in our webpage.
2. Referring to table 2 of the standard, the installation must be capable of remote disconnection following a command from ENERGA. This can be accomplished with additional communication equipment, depending on the interface which is used by ENERGA.
3. Follow the procedure in the next page for the parameter adjustment to ensure the conformity with the Revision Sheet no. 2/2018 of the Distribution Grid Code.

Niestetal, 21.06.2018

SMA Solar Technology AG

ppa.

ppa. Dr.-Ing. Johannes Kneip
EVP Development Center

For Poland only: Compliance with KA2_2018

SUNNY BOY / SUNNY TRIPOWER

The revision no. 2/2018 of the distribution grid code (original version in Polish "Karta aktualizacji nr 2/2018 Instrukcji Ruchu i Eksploatacji Sieci Dystrybucyjnej") specifies the grid requirements in Poland.

This document describes how to set the parameters to comply with the directive mentioned above. Only qualified persons are allowed to set the parameters.

This document is valid for the following SMA inverters:

- SB1.5-1VL-40 / SB2.5-1VL-40
- SB3.0-1AV-40 / SB3.6-1AV-40 / SB4.0-1AV-40 / SB5.0-1AV-40
- STP 5000TL-20 / STP 6000TL-20 / STP 7000TL-20 / STP 8000TL-20 / STP 9000TL-20 / STP 10000TL-20 / STP 12000TL-20
- STP 15000TL-30 / STP 20000TL-30 / STP 25000TL-30

Requirements:

☐ The inverter must be connected directly or via a communication product to a computer or smartphone.

☐ An SMA Grid Guard code must be available (see order form for the SMA Grid Guard code at www.SMA-Solar.com).

Procedure:

1. Call up the user interface of the communication product / inverter or start the software and open the PV system as **Installer**.
2. Enter the SMA Grid Guard code or activate the SMA Grid Guard mode (see manual of the communication product / inverter).
3. Select and set the following parameters of the device types SB1.5-1VL-40 / SB2.5-1VL-40 / STP 5000TL-20 / STP 6000TL-20 / STP 7000TL-20 / STP 8000TL-20 / STP 9000TL-20 / STP 15000TL-30 / STP 20000TL-30 / STP 25000TL-30 / STP 10000TL-20 / STP 12000TL-20:

Parameter name with RS485	Parameter name for BLUETOOTH or Speedwire/Webconnect or user interface	Value to be set
CntrySet	Set country standard	EN50438_2013
VolCtl.hhLim	Voltage monitoring median maximum threshold	264.5 V
VolCtl.hhLimTms	Voltage monitoring median max. threshold trip.time	200 ms
VolCtl.hLim	Voltage monitoring lower maximum threshold	253 V
VolCtl.hLimTms	Voltage monitoring lower max. threshold trip. time	3000 ms

Parameter name with RS485	Parameter name for BLUETOOTH or Speedwire/Webconnect or user interface	Value to be set
FrqCtl.hLim	Frequency monitoring lower maximum threshold	51.5 Hz
Aid.HzMon.Stt	Status of islanding detection frequency monitor	On
Q-VArMod*	Oper.mode vol.maint.at Q on Dem., st.vol.maint.conf.	PFCtlW
PF-PFStop*	cosPhi at end point, cosPhi(P) char. config.	0.95

* Does not apply to SB1.5-1VL-40 and SB2.5-1VL-40

4. Select and set the following parameters of the device types SB3.0-1AV-40 / SB3.6-1AV-40 / SB4.0-1AV-40 / SB5.0-1AV-40:

Parameter name	Value to be set
Country standard	EN50438:2013
Frequency monitoring Lower maximum threshold	51.5 Hz
Voltage monitoring median maximum threshold tripping time	200 ms
Voltage monitoring lower maximum threshold	253 V
Voltage monitoring lower maximum threshold tripping time	3000 ms

5. If the system must be capable of remote disconnection following a command from the grid operator the inverter and the required communication products have to be configured dependant on the interface that is used by the grid operator. The procedure is described in the manuals of the inverters and the communication products.