We Drive Energy

Jiading District, Shanghai , *May 31st 2021*

DECLARATION OF CONFORMITY (EN)

Hereby the manufacturer, Trannergy Co,Ltd. *declares that the following inverters:*

/ **SGN1300TL SGN1800TL SGN2300TL SGN2700TL SGN3000TL SGN3400TL SGN4000TL SGN4600TL SGN5400TL SGN6600TL**

/ **TRB4000TL TRB5000TL TRB6000TL TRB8000TL TRB9000TL TRB010KTL**

/ **TRN010KTL TRN012KTL TRN015KTL TRN017KTL TRN020KTL TRN023KTL TRN025KTL**

/ **TRM025KTL TRM030KTL TRM033KTL**

Do fulfill the requirements defined for Type A power generating units defined in:

- *general application requirements resulting from the Commission Regulation (EU) 2016/631 - NC RfG.*
- *standard EN 50549-1:2019*
- *Irish Grid Parameters*

Additionally, TRM series *fulfill the requirements defined for Type B power generating units defined in:*

- *general application requirements resulting from the Commission Regulation (EU) 2016/631 - NC RfG.*
- *standard EN 50549-2:2019*
- *Irish Grid Parameters*

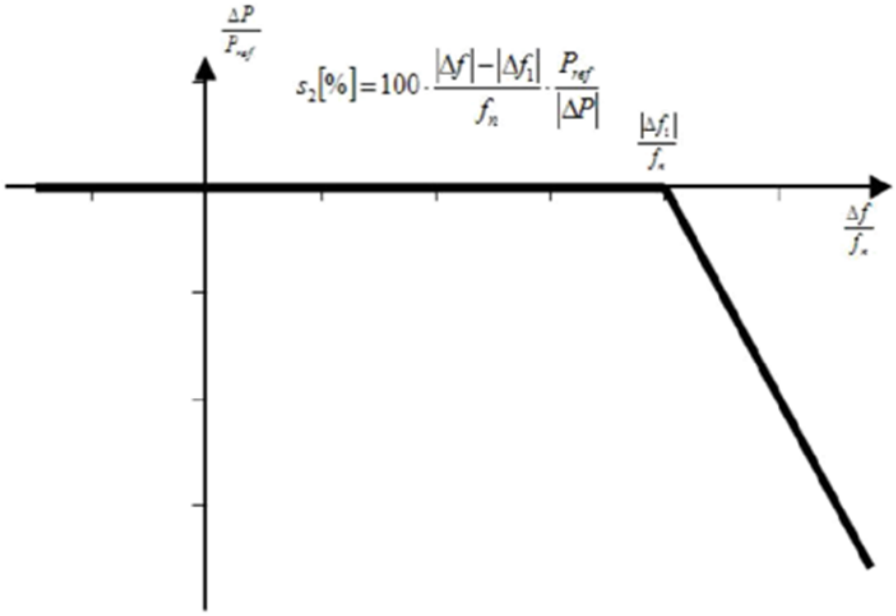
The following parameters are predefined in the setup:

Voltage and frequency protection	***Value***	***Max. disconnection time***
Lower AC voltage limit [U<]	195,5,0 V	< 1,5 s
Upper AC voltage limit for the 10 minute average voltage value [U>]	253,0 V	< 3,0 s
Upper AC voltage limit [U>]	264,5 V	< 0,2 s
Lower AC frequency limit [f<]	47,5 HZ	< 0,5 s
Upper AC frequency limit [f >]	52 Hz	< 0,5 s
Loss of mains		
Active istanding detection	*Active*	5,0 s
Time before reconnection		
Time to reconnect after a grid failure	60 s	

The LFSM-O mode , in which the generated active power decreases in response to an increase in frequency above a predefined threshold value , is active with the following default settings:

Parameters of LFSM-O mode

frequency threshold of LFSM-O mode	50,2 Hz
droop	5 %



P_{ref} is the reference active power to which ΔP is related and may be specified differently for synchronous power- generating modules and power park modules. ΔP is the change in active power output from the power-generating module. f_n is the nominal frequency (50 Hz) in the network and f is the frequency deviation in the network. At overfrequencies where f is above f_1, the power-generating module has to provide a negative active power output change according to the droop S_2.

The manufacturer declares that the frequency threshold can be changed in the range of 50.2 – 50.5 Hz, and the droop can be changed in the range of 2 % to 12 % in the professional Service Menu.

For and on behalf of
TRANNERGY CO.,LTD.
William Xu
.....
Authorized Signature(S)

DI Dr.William Xu
Trannergy Manager

Trannergy Co., Ltd.
Floor 2, Building 2, No. 188, Weiwu Road, Jiading District, Shanghai. PRC.

www.trannergy.com,