



DECLARATION OF CONFORMITY

Hereby the manufacturer: Ningbo Ginlong Technologies Co., Ltd
Address: No.57 jintong Road,Scafront(Binhai)Industrial park,Xiangshan Dcmonstration Industrial Estate,Xiangshan,Ningbo,Zhejinag,315712,P.R.China.

Declares that the following inverters:

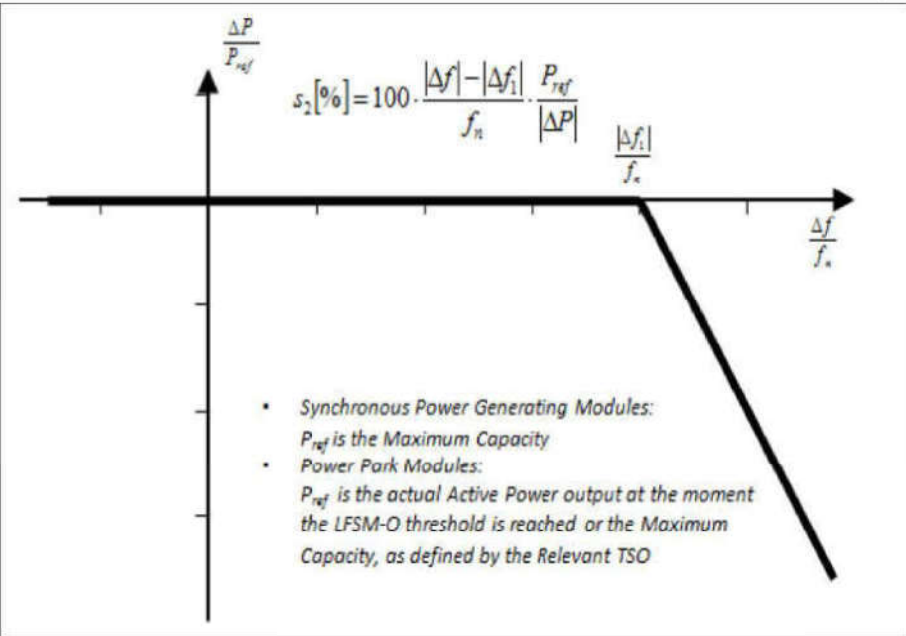
Model: Solis-3P3K-4G, Solis-3P4K-4G, Solis-3P5K-4G, Solis-3P6K-4G,
Solis-3P8K-4G, Solis-3P9K-4G, Solis-3P10K-4G, Solis-3P12K-4G
Solis-3P15K-4G, Solis-3P17K-4G, Solis-3P20K-4G

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 50549-1:2019.

If choosing grid standard 50549 PO, the following parameters are predefined as below:

Voltage and frequency protection	Value	Max. disconnection time
Lower AC voltage limit [U<]	195.5V	< 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 islanding 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> $s_2 [\%] = 100 \cdot \frac{ \Delta f - \Delta f_1 }{f_n} \cdot \frac{P_{ref}}{ \Delta P }$ </p> <ul style="list-style-type: none"> • Synchronous Power Generating Modules: P_{ref} is the Maximum Capacity • Power Park Modules: P_{ref} is the actual Active Power output at the moment the LFSM-O threshold is reached or the Maximum Capacity, as defined by the Relevant TSO 	

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 Δf is the frequency deviation in the network. At overfrequencies where Δf is above Δf_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.

Manufacture Stamp

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 NINGBO GINLONG TECHNOLOGIES CO., LTD.

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