



Applicant:	FOXESS CO., LTD. No.939, Jinhai Third Road, New Airport Industry Area, Longwan District, Wenzhou, Zhejiang, China
Product:	Photovoltaic Inverter with integrated automatic disconnection de-

vice between a generator and the public low-voltage grid

Model: R75, R100, R110

Intended use:

PV-Grid-Tied inverter in accordance with EN 50549-1 with three-phase parallel coupling to the distribution network. The automatic disconnection device is an integral part of the aforementioned inverter.

Applied standards and guidelines:

SOP-9-1_15 GCC Certification Program, 09/21

Based on:

EN 50549-1:2019

Requirements for generating plants to be connected in parallel with distribution networks Part 1: Connection to a LV distribution network - Generating plants up to and including Type B

The generating plant(s) are also considered to be compliant with the relevant Articles of Commission Regulation (EU) 2016/631 of 14 April 2016 establishing a network code on requirements for grid connection of generators (NC RfG), provided, that all settings as provided by the DSO and the responsible party are complied with.

The safety concept of an aforementioned representative products corresponds at the time of issue of this certificate to the valid safety specifications for the specified use in accordance with regulations.

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Test report from Guangdong HuaChuang Tech-
nology Service Co., Ltd., A2LA accredited Cert
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Interface protection range:

Voltage values									
Threshold	Stage 1 [27 <]				Stage 2 [27 <<]				
Theshold	Operate voltage		Operate time		Operate voltage		Operate time		
Range	0,2-1,0 Un		0,1-100s		0,2-1,0 Un		0,1-5s		
Steps	0,01 Un		0,1 s		0,01 Un		0,05s		
Threshold	Stage 1 [59 >]			Stage 2 [59 >>]			Overvoltage 10 min mean protection		
Threshold	Operate	Operate		Operate	Operate	0	perate	Operate	
	voltage	time		voltage	time	v	oltage	time	
Panga	1,0-1,2 Un	0,1-100s		1,0-1,3 Un	0,1-5s	1,0-1,15		3s not ad-	
Range	1,0-1,2 011						Un	justable	
Steps	0,01 Un	0	,1s	0,01 Un	0,05s	0,	01 Un		
Frequency values									
Threshold	Stage 1 [81 <]				Stage 2 [81 <<]				
Theshold	Operate frequ	iency	Operate time		Operate frequency		Operate time		
Range	47,0-50,0Hz		0,1-100s		47,0-50,0Hz		0,1-5s		
Steps	0,1 Hz		0,1 s		0,1 Hz		0,05s		
Threaded	Stage 1 [81 >]			Stage 2 [81 >>]					
Threshold	Operate frequency		Operate time		Operate frequency		Operate time		
Range	50,0-52,0Hz		0,1-100s		50,0-52,0Hz		0,1-5s		
Steps	0,1 Hz		0,1 s		0,1 Hz		0,05s		
Note: The reset ratio is less than 2% of nominal value for voltage and 0,2Hz for frequency.									

The products fulfill the following requirements according to EN 50549-1:2019:

Requirements:EN 50549-1:2019	Assessment / Remark			
4.4 Normal operating range	Pass			
4.5 Immunity to disturbances	Pass			
4.6 Active response to frequency deviation	Pass			
4.7 Power response to voltage variations and voltage changes	Pass			
4.8 EMC and power quality	Pass			
4.9 Interface protection	Pass			
4.10 Connection and starting to generate electrical power	Pass			
4.11 Ceasing and reduction of active power on set point	Pass			
4.12 Remote information exchange	Not applicable, to be considered at the plant level			
4.13 Requirements regarding single fault tolerance of interface protection system and interface switch	Pass			