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Manufacture Declaration for EN50438:2007

Omnik New Energy Co., Ltd here by confirms that the product lines:

Omniksol-5K-TL2-3P

Omniksol-6K-TL2

Omniksol-8K-TL2

Omniksol-9K-TL2

Omniksol-10K-TL2

Are in conformity with the EN50438:2007 Requirement for the connection of micro-generators in parallel with public low-voltage distribution networks.

The test results are summarized in the **Enclosure 1** of this declaration .

Omnik New Energy Co., Ltd

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(Product manger)

Enclosure 1
Test results sheet

Power quality

Harmonic current emission								
	Maximum permissible harmonic current as per EN61000-3-2 ClassA							
Harmonic	2nd	3rd	5th	7th	9th	11th	13th	15th≤n≤39th
Limit	1.08	2.3	1.14	0.77	0.4	0.33	0.21	0.15a)(15/n)
Test value	0.32	0.02	0.23	0.10	0.01	0.08	0.07	<limit of EN 61000-3-2

a)50% or some other declared value close to the midpoint between minimum and maximum.

Voltage fluctuations and flicker				
	Maximum permissible voltage fluctuation(express as a percentage of nominal voltage at100% power) and flicker as per EN 61000-3-3			
	Starting	Stopping	Running	
Limit	3.3%	3.3%	Pst=1.0	Plt=0.65
Test value	0.44%	0.85%	0.20	0.20

Power factor			
Protection limit	+0.95-0.95 at three voltage levels		
	210V	230V	250V
Test value	0.999	0.999	0.998

Grid monitoring
Under/ Over frequency

Parameter	Under frequency		Over frequency	
	Frequency	Time	Frequency	Time
Protection limit (EN 50438 Annex A)	48Hz	0.5s	50.5Hz	0.5s
Actual setting	48Hz	0.5s	50.5Hz	0.5s
Trip value (test result)	48.01Hz	0.382s	50.49Hz	0.413s

Under / Over voltage

Parameter	Under frequency			Time	Over frequency			
	Voltage				Time	Voltage		
	L1-N	L2-N	L3-N			L1-N	L2-N	L3-N
Protection limit (EN 50438 Annex A)	230V-10%			0.5s	230V+10%			0.5s
Actual setting	207.0V			0.5s	253.0V			0.5s
Trip value(test result)	207.1V			0.389s	252.9V			0.416s

LoM

Output power level a)	Min.	Medium	Max.
Trip setting clearance time	0.5s	0.5s	0.5s
Trip value clearance time	0.435s	0.386s	0.318s

a) Indicative values are shown for minimum, medium and maximum power levels.

Fault level contribution

Short-circuit current at micro-generator terminals
0.0280kA