

Test Verification of Conformity

In the basis of the tests undertaken, the sample(s) of the below product have been found to comply with the requirements of the referenced specifications at the time the tests were carried out.

Applicant Name & Address:	Shenzhen SOFARSOLAR Co., Ltd. 5L,Fourth Building,Antongda Industrial Park,Liuxian Avenue No.1,Xinan Street,Baoan District,Shenzhen,China.
Product Description: Ratings & Principle Characteristics: Models: Brand Name:	AC-coupled Storage Converter See Annex to Test Verification of Conformity ME 3000SP 
Relevant Standards	Engineering Recommendation G83 Issue 2 (December 2012) Recommendations For The Connection Of Type Tested Small-Scale Embedded Generators (Up To 16A Per Phase) In Parallel With Low- Voltage Distribution Systems
Verification Issuing Office:	Intertek Testing Services Shenzhen Ltd. Guangzhou Branch Block E, No.7-2 Guang Dong Software Science Park, Caipin Road, Guangzhou Science City, GETDD, Guangzhou, China
Date of Tests:	10 Oct., 2016 – 25 Oct., 2016
Test Report Number(s):	161008073GZU-001

This verification is part of the full test report(s) and should be read in conjunction with them.

Signature

Name: Tommy Zhong
Position: Assistant Technical Manager
Date: 27 Oct 2016



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Annex to Verification of Conformity

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(Address: Block E, No.7-2 Guang Dong Software Science Park, Caipin Road, Guangzhou Science City, GETDD,
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Ratings & Principle Characteristics:

Battery Type: Lead-acid, Lithium-ion
Battery Voltage Range: 42-58Vdc
Max. Charging Current: 60A
Max. Discharging Current: 60A
Max. Charging & Discharging Power: 3000VA
Nominal Grid Voltage: 230Vac
Nominal output Voltage (stand-alone): 230Vac
Max. output Current: 13A
Nominal Grid frequency: 50Hz
Power factor: 1 (adjustable +/-0.8)
Ingress protection: IP65
Operating Temperature Range: -25°C - 60°C
Protective Class: Class I

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Protection. Voltage tests						
Function	Setting		Trip test		No trip tests	
	Voltage	Time delay	Voltage	Time delay	Voltage /time	Confirm no trip
U/V stage 1	200.1V	2.5s	201.3V	2.54s	204.1V 3.5s	No trip
				2.53s		
				2.54s		
				2.52s		
				2.54s		
U/V stage 2	184V	0.5s	185.6V	0.525s	188V 2.48s	No trip
				0.515s		
				0.515s		
				0.520s		
				0.520s		
					180V 0.48s	No trip
O/V stage 1	262.2V	1.0s	261.9V	1.01s	258.2V 2.0s	No trip
				1.03s		
				1.02s		
				1.03s		
				1.01s		
O/V stage 2	273.7V	0.5s	273.3V	0.515s	269.7V 0.98s	No trip
				0.525s		
				0.505s		
					277.7V 0.48s	No trip

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Protection Frequency tests						
Function	Setting		Trip test		Frequency /time	Confirm no trip
	Frequency	Time delay	Frequency	Time delay		
U/F stage 1	47.5Hz	20s	47.48 Hz	20.05s	47.7Hz 25s	No trip
				20.05s		
				20.00s		
				20.05s		
				20.00s		
U/F stage 2	47Hz	0.5s	46.96Hz	0.522	47.2Hz 19.98s	No trip
				0.512		
				0.536		
				0.522		
				0.532		
					46.8Hz 0.48s	No trip

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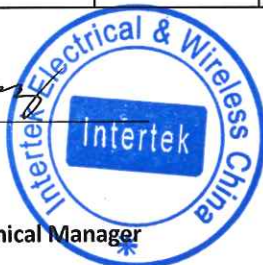
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O/F stage 1	51.5Hz	90s	51.52HZ	90.20s	51.3Hz 95s	No trip
				90.20s		
				90.20s		
				90.00s		
				90.20s		
O/F stage 2	52Hz	0.5s	52.01HZ	0.510s	51.8Hz 89.98s	No trip
				0.524s		
				0.514s		
				0.524s		
				0.526s		
				52.2Hz 0.48s	No trip	

LOSS OF MAINS TEST						
Method used	To be carried out at three output power levels according to BS EN 62116					
Balancing load on islanded network	33% -5% Q Test 22	66% -5% Q Test 12	100% -5% P Test 5	33% +5% Q Test 31	66% +5% Q Test 21	100% +5% P Test 10
Trip time. Limit is 0.5 seconds	201.5ms	209.0ms	288.0ms	263.0ms	288.0ms	287.0ms

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