

Zgodna z wytycznymi Komisji Europejskiej

Kompatybilność elektromagnetyczna 2004 /108/EC,
2014/30/EU Dyrektywa niskonapięciowa 2006/95/EC,
2014/35/EU

Urządzenie ujęte poniżej zostały zaprojektowane oraz wyprodukowane zgodnie z wymienionymi dyrektywami CE. Tabela z dyrektywami i urządzeniami:

	SOFAR	SOFAR	SOFAR	SOFAR	SOFAR
SOFAR PRODUCTS	SOFAR 1100TL	SOFAR 3000TLM	SOFAR4.4KTL-X	SOFAR 10000TL	SOFAR 30000TL
	SOFAR 1600TL	SOFAR 3680TLM	SOFAR5.5KTL-X	SOFAR 15000TL	SOFAR 33000TL
	SOFAR 2200TL	SOFAR 4000TLM	SOFAR6.6KTL-X	SOFAR 17000TL	SOFAR 40000TL
	SOFAR 2700TL	SOFAR 4600TLM	SOFAR8.8KTL-X	SOFAR 20000TL	
	SOFAR 3000TL	SOFAR 5000TLM	SOFAR11KTL-X		
		SOFAR 6000TLM	SOFAR12KTL-X		
EMC directive 2014/30/EU					
EN 61000-3-2: 2006+A1: 2009+A2:2009	√	SOFAR 3000TLM / 3680TLM		SOFAR 10000TL	
EN 61000-3-3: 2013	√	SOFAR 3000TLM / 3680TLM		SOFAR 10000TL	
EN 61000-3-11: 2000		SOFAR 4000TLM / 4600TLM / 5000TLM / 6000TLM		SOFAR 15000TL / 17000TL / 20000TL	
EN 61000-3-12: 2011		SOFAR 4000TLM / 4600TLM / 5000TLM / 6000TLM		SOFAR 15000TL / 17000TL / 20000TL	
EN 61000-6-1: 2007			√	√	
EN 61000-6-2: 2005	√	√	√	√	√
EN 61000-6-3: 2007+A1: 2011	√	√	√	√	
EN 61000-6-4: 2007+A1: 2011			√	√	√
LVD directive 2014/35/EU					
EN 62109-1: 2010	√	√	√	√	√
EN 62109-2: 2011	√	√	√	√	√

Shenzhen SOFARSOLAR Co., Ltd.
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Informacja:

Deklaracja zgodności obowiązuje do momentu, w którym firma SOFARSOLAR wycofa ją na piśmie oraz do momentu gdy produkt ulegnie zmianom projektowo-produkcyjnym.

Deklaracja nie obejmuje komponentów, które nie są częścią zestawu firmy SOFARSOLAR oraz nie są z nią zintegrowane. Deklaracja nie jest ważna w przypadku, w którym produkty firmy SOFARSOLAR zostały zainstalowane bądź podłączone w sposób nieprawidłowy.

Shenzhen, 14.07.2017
Shenzhen SOFARSOLAR Co. Ltd.

A handwritten signature in black ink, appearing to read "David Zhong".

Sales Director



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. 5/F, Building 4, Antongda Industrial Park, No.1 Liuxian Avenue, Xin' an Street, Bao'an District, Shenzhen City, Guangdong Province, P.R.China
Product Description:	Solar inverter
Ratings & Principle Characteristics:	See Annex to Test Verification of Conformity
Models:	SOFAR 4.4KTL-X, SOFAR 5.5KTL-X, SOFAR 6.6KTL-X, SOFAR 8.8KTL-X, SOFAR 11KTL-X, SOFAR 12KTL-X
Brand Name:	
Relevant Standards	EN 50438: 2013 Requirements for micro-generating plants to be connected in parallel with public low-voltage distribution networks Type test for Poland and Turkey compliance
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:	18 April., 2017 – 25 May., 2017
Test Report Number(s):	170418016GZU-002

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

Signature

Name: Grady Ye
Position: Assistant Manager
Date: 27 May 2017



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Annex to Test Verification of Conformity

This is an Annex to Test Verification of Conformity with Verification/Report Number(s):
170418016GZU-002. the issuing office is Intertek Testing Services Shenzhen Ltd. Guangzhou Branch
(Address: Block E, No.7-2 Guang Dong Software Science Park, Caipin Road, Guangzhou Science City, GETDD,
Guangzhou, China).

Ratings & Principle Characteristics:

Maximum d.c. input voltage: 1000 Vdc
Input voltage range: 160-960 Vdc
MPPT voltage range (full Load): 190-850 V (for SOFAR 4.4KTL-X); 240-850 V (for SOFAR 5.5KTL-X); 290-850 V (for SOFAR 6.6KTL-X); 380-850 V (for SOFAR 8.8KTL-X); 480-850 V (for SOFAR 11KTL-X); 575-850 V (for SOFAR 12KTL-X);
Max. input current: 2×11 A
Nominal output voltage: 3/N/PE230V/400Vac
Max. output current: 3×6.4 A (for SOFAR 4.4KTL-X); 3×8.0 A (for SOFAR 5.5KTL-X); 3×9.6 A (for SOFAR 6.6KTL-X); 3×12.8A (for SOFAR 8.8KTL-X); 3×15.9 A (for SOFAR 11KTL-X); 3×19.1 A (for SOFAR 12KTL-X);
Nominal frequency: 50 Hz
Max. output power: 4400VA (for SOFAR 4.4KTL-X); 5500VA (for SOFAR 5.5KTL-X); 6600VA (for SOFAR 6.6KTL-X); 8800VA (for SOFAR 8.8KTL-X); 11000VA (for SOFAR 11KTL-X); 13200VA (for SOFAR 12KTL-X)
Ingress protection: IP65
Operating temperature range: -25~+60℃

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 Guangzhou, China).

D.2.3 Over-/under-voltage				P	
		Over Voltage stage		Under Voltage	
Parameter		Voltage	Disconnection Time	Voltage	Disconnection Time
Protection limit		264.5V	0.1s-0.2s	195.5V	1.2s-1.5s
Actual setting (as applied to interface protection)		264.5V	0.15s	195.5V	1.40s
Trip value (test result)-1	All phases	265.30	0.162s	195.40	1.435s
	Phase R	264.46	0.161s	195.88	1.430s
	Phase S	264.39	0.163s	195.37	1.435s
	Phase T	264.43	0.169s	195.18	1.435s
Trip value (test result)-2	All phases	264.42	0.156s	195.31	1.440s
	Phase R	264.47	0.156s	195.42	1.435s
	Phase S	264.38	0.178s	195.32	1.435s
	Phase T	264.42	0.170s	195.32	1.430s

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Trip value (test result)-3	All phases	264.40	0.172s	195.35	1.445s
	Phase R	264.46	0.170s	195.51	1.450s
	Phase S	264.20	0.178s	195.59	1.430s
	Phase T	264.48	0.174s	195.49	1.430s
Trip value (test result)-4	All phases	264.39	0.168s	195.43	1.435s
	Phase R	264.44	0.166s	195.51	1.440s
	Phase S	264.30	0.163s	195.29	1.430s
	Phase T	264.41	0.159s	195.48	1.430s
Trip value (test result)-5	All phases	264.39	0.158s	195.42	1.440s
	Phase R	264.49	0.165s	195.51	1.450s
	Phase S	264.32	0.171s	195.38	1.435s
	Phase T	264.42	0.156s	195.39	1.440s
Over-voltage stage 1*	253V (according to EN 50160), the disconnection after detection of a overvoltage at 10 min –mean-value takes place within 3s				

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Over- /under-frequency				
	Over Frequency		Under Frequency	
Parameter	Frequency	Time	Frequency	Time
Protection limit	52.0Hz	0.3-0.5s	47.5Hz	0.3-0.5s
Actual setting (as applied to interface protection)	52.0Hz	0.4s	47.5Hz	0.4s
Trip value (test result)-1	52.01Hz	0.398s	47.5Hz	0.410s
Trip value (test result)-2	52.01Hz	0.400s	47.5Hz	0.416s
Trip value (test result)-3	52.01Hz	0.418s	47.5Hz	0.410s
Trip value (test result)-4	52.01Hz	0.412s	47.5Hz	0.426s
Trip value (test result)-5	52.01Hz	0.406s	47.5Hz	0.414s

LOM test						
Method used	EN 62116					
Balancing load on island network	33% of -5% Q Test 22	66% of -5% Q Test 12	100% of -5% P Test 5	33% of +5% Q Test 31	66% of +5% Q Test 21	100% of +5% P Test 10
Trip time	178.0ms	264.0ms	252.0ms	783.0ms	552.0ms	556.0ms

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