

CERTIFICATE OF CONFORMITY

KONFORMITÄTSBESCHEINIGUNG

Issued to: Solenso electronic materials Co., LTD.
Ausgestellt an: 4F., No. 56, Zili 5th St., Zhongli Dist., Taoyuan City 320, Taiwan
For the product: PV Microinverter
für das Produkt: PV-Mikrowechselrichter

Trade name: 
Handelsname:

Type/Model: SG1600, SG2000
Typ/Modell:

Ratings: See Annex
Bewertungen: Siehe Anhang

Manufactured by: Solenso electronic materials Co., LTD.
Hergestellt von: 4F., No. 56, Zili 5th St., Zhongli Dist., Taoyuan City 320, Taiwan

Requirements: VDE-AR-N 4105:2018-11 – Erzeugungsalagen am Niederspannungsnetz
Anforderungen: Technische Mindestanforderungen für Anschluss und Parallelbetrieb von Erzeugungsalagen am Niederspannungsnetz
DIN VDE V 0124-100:2020-06 – Netzintegration von Erzeugungsalagen – Niederspannung – Prüfanforderungen an Erzeugunseinheiten vorgesehen zum Anschluss und Parallelbetrieb am Niederspannungsnetz

This Test Certificate is granted on account of an examination by DEKRA, the results of which are laid down in a confidential file no. 6209661.50

Dieses Prüfzeugnis wird aufgrund einer Prüfung durch DEKRA erteilt, deren Ergebnisse in einer vertraulichen Akte Nr. 6209661.50 niedergelegt sind.

The examination has been carried out on one single specimen or several specimens of the product, submitted by the manufacturer. The certificate does not include an assessment of the manufacturer's production. Conformity of his production with the specimen tested by DEKRA is not the responsibility of DEKRA.

Il sottoscritto dichiara che il prodotto di cui sopra è conforme ai requisiti tecnici menzionati. Questo attestato di conformità è rilasciato sulla base dei risultati di prova riferiti nel rapporto sopra menzionato. La valutazione non include una verifica della produzione di serie né del luogo di produzione.

This Test Certificate expires at the latest on 2030-03-03 or expires upon withdrawal of one of the above mentioned standards.

Dieses Prüfzeugnis läuft spätestens am 2030-03-03 ab oder erlischt mit Rücknahme einer der oben genannten Normen.

Shanghai, 2025-03-03

Certificate Number: 6209661.01COC

DEKRA Testing and Certification (Shanghai) Ltd.



Kreny Lin
Certification Manager

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ESA-CER-F021 v4.1

Annex to 6209661.01COC

E.4 Unit certificate (VDE-AR-N 4105:2018-11)		
E.4 Einheitenzertifikat		
Manufacturer / Address: <i>Hersteller / Adresse:</i>	Solenso electronic materials Co., LTD. 4F., No. 56, Zili 5th St., Zhongli Dist., Taoyuan City 320, Taiwan	
Type of power generation unit: <i>Typ Erzeugungseinheit:</i>	SG1600, SG2000	
<input checked="" type="checkbox"/> Inverter <i>umrichter</i>	<input type="checkbox"/> Asynchronous generator <i>Asynchrongenerator</i>	<input type="checkbox"/> Synchronos generator <i>Synchrongenerator</i>
<input type="checkbox"/> Stirling generator <i>Stirlinggenerator</i>	<input type="checkbox"/> Fuel cell <i>Brennstoffzelle</i>	<input type="checkbox"/> Others <i>andere</i>
Rated values <i>Bemessungswerte</i>	SG1600	SG2000
Max. active power $P_{E_{max}}$ <i>Max. Wirkleistung $P_{E_{max}}$</i>	1600 (W)	2000 (W)
Max. apparent power $S_{E_{max}}$ <i>Max. Scheinleistung $S_{E_{max}}$</i>	1600 (VA)	2000 (VA)
Rated voltage: <i>Bemessungsspannung:</i>	230, L/N/PE	
Rated current: <i>Bemessungsstrom:</i>	6.96 (A)	8.70 (A)
Network connection rule: <i>Netzanschlussregel</i>	VDE-AR-N 4105 „Erzeugungsanlagen am Niederspannungsnetz“ <i>Technische Mindestanforderungen für Anschluss und Parallelbetrieb von Erzeugungsanlagen am Niederspannungsnetz</i>	
Test requirement: <i>Prüfanforderung</i>	DIN VDE V 0124-100 (VDE V 0124-100) „Netzintegration von Erzeugungsanlagen – Niederspannung“ <i>Prüfanforderungen an Erzeugungseinheiten vorgesehen zum Anschluss und Parallelbetrieb am Niederspannungsnetz</i>	
The power generation unit described above meets the requirements of VDE-AR-N 4105. <i>Die oben bezeichnete Erzeugungseinheit erfüllt die Anforderungen der VDE-AR-N 4105.</i>		

Annex to 6209661.01COC
E.5 Test report “Utility interactive” for power generation units with an input current > 75A (VDE-AR-N 4105:2018-11)
E.5 Prüfbericht „Netzurückwirkungen“ für Erzeugungseinheiten mit einem Eingangsstrom > 75 A

Manufacturer: <i>Anlagenhersteller</i>		Solenso electronic materials Co., LTD.			
Manufacturer specifications: <i>Herstellerangaben</i>		Type (Hybrid-inverter): <i>Anlagenart (PV -WR):</i>	PV Microinverter		
		maximum active power $P_{E_{max}}$: <i>maximale Wirkleistung</i> $P_{E_{max}}$:	SG1600	SG2000	
			1600 (W)	2000 (W)	
		Rated voltage: <i>Bemessungsspannung:</i>	230, L/N/PE		
Measuring period: <i>Messzeitraum:</i>	From 2025-01-01 to 2025-01-07 <i>Vom 2025-01-01 bis 2025-01-07</i>				
Rapid voltage changes <i>Schnelle Spannungsänderungen</i>					
Model / Modell: JPM-1000					
Switching on without specification <i>Einschalten ohne Vorgabe (zum Primärenergieträger)</i>		k_i :	0.089		
Most unfavorable case when switching the generator <i>Ungünstigster Fall beim Umschalten der Generatorstufen</i>		k_i :	0.698		
Switching on at rated power <i>Einschalten bei Nennbedingungen (des Primärenergieträgers)</i>		k_i :	0.662		
Switch off at rated power <i>Ausschalten bei Bemessungsleistung</i>		k_i :	1.049		
Worst-case value of all switching operations <i>Schlechtester Wert aller Schaltvorgänge</i>		k_{imax} :	1.049		
<i>Flicker</i>	Angle of network impedance ψ_k : <i>Netzimpedanzwinkel ψ_k</i>	32°	50°	70°	85°
	Coefficient of system flicker c_ψ : <i>Anlagenflickerbeiwert c_ψ</i>	180.241	--	--	--

Annex to 6209661.01COC
Test report "Utility interactive" for power generation units with an input current > 75A (VDE-AR-N 4105:2018-11)
Prüfbericht „Netzurückwirkungen“ für Erzeugungseinheiten mit einem Eingangsstrom > 75 A

Extract from test report for unit certificate
"Determination of electrical properties"
Auszug aus dem Prüfbericht für Gerätezertifikat
"Bestimmung elektrischer Eigenschaften"

Report No.: 6209661.50
 Bericht Nr.: 6209661.50

Harmonics / Oberschwingungen:

Model / Modell: SG1600

Tested according to DIN VDE V 0124-100 clause 5.2.4 / geprüft nach DIN VDE V 0124-100 Punkt 5.2.4

Active power Wirkleistung P/P _n [%]	10	20	30	40	50	60	70	80	90	100
Harmonic order Ordnungszahl	I [%]	I [%]	I [%]	I [%]	I [%]	I [%]	I [%]	I [%]	I [%]	I [%]
2	0.023	0.023	0.046	0.023	0.023	0.023	0.023	0.023	0.023	0.046
3	0.853	3.157	3.157	3.364	2.880	3.341	3.364	3.134	3.295	3.802
4	0.023	0.023	0.069	0.023	0.000	0.000	0.000	0.000	0.000	0.023
5	0.668	0.922	0.829	1.359	0.991	1.313	1.336	1.106	0.922	0.714
6	0.023	0.023	0.046	0.023	0.000	0.000	0.000	0.000	0.000	0.023
7	0.945	0.184	0.115	1.014	0.507	0.392	0.461	0.714	0.783	0.530
8	0.023	0.023	0.046	0.023	0.000	0.000	0.000	0.000	0.000	0.023
9	0.922	0.323	0.369	1.014	0.945	0.899	0.991	1.313	1.498	1.705
10	0.023	0.023	0.046	0.023	0.000	0.000	0.000	0.000	0.000	0.023
11	0.783	0.461	0.553	0.829	0.991	1.060	1.175	1.382	1.544	1.659
12	0.023	0.023	0.069	0.023	0.000	0.000	0.000	0.000	0.000	0.023
13	0.438	0.392	0.691	0.760	0.968	1.198	1.244	1.313	1.359	1.475
14	0.023	0.023	0.046	0.023	0.000	0.000	0.000	0.000	0.000	0.023
15	0.276	0.346	0.438	0.599	0.806	1.198	1.290	1.152	1.083	1.359
16	0.023	0.023	0.046	0.023	0.000	0.000	0.000	0.000	0.000	0.023
17	0.253	0.069	0.438	0.507	0.645	1.060	1.244	1.083	0.968	0.806
18	0.023	0.023	0.023	0.023	0.000	0.000	0.000	0.000	0.000	0.023
19	0.415	0.392	0.576	0.415	0.484	0.806	1.014	0.922	0.829	0.876
20	0.023	0.023	0.023	0.023	0.000	0.000	0.000	0.000	0.000	0.023
21	0.714	0.622	0.438	0.369	0.438	0.599	0.691	0.714	0.760	0.530
22	0.023	0.023	0.046	0.023	0.000	0.000	0.000	0.000	0.000	0.023
23	0.329	0.360	0.346	0.461	0.461	0.392	0.369	0.461	0.499	0.499
24	0.023	0.023	0.069	0.023	0.000	0.000	0.000	0.000	0.000	0.023
25	0.468	0.483	0.230	0.484	0.484	0.230	0.207	0.207	0.438	0.461
26	0.023	0.023	0.069	0.023	0.000	0.000	0.000	0.000	0.000	0.023
27	0.484	0.576	0.323	0.415	0.461	0.207	0.230	0.023	0.230	0.369
28	0.023	0.023	0.046	0.023	0.000	0.000	0.000	0.000	0.000	0.023
29	0.438	0.323	0.276	0.207	0.415	0.323	0.276	0.115	0.046	0.323
30	0.023	0.023	0.023	0.023	0.000	0.000	0.000	0.000	0.000	0.023
31	0.369	0.161	0.161	0.115	0.323	0.369	0.276	0.184	0.115	0.138
32	0.023	0.023	0.023	0.023	0.000	0.000	0.000	0.000	0.000	0.023
33	0.276	0.115	0.207	0.115	0.253	0.323	0.276	0.207	0.230	0.115
34	0.023	0.023	0.046	0.023	0.000	0.000	0.000	0.000	0.000	0.023
35	0.161	0.161	0.276	0.046	0.207	0.207	0.300	0.184	0.253	0.161
36	0.023	0.023	0.046	0.000	0.000	0.000	0.000	0.000	0.000	0.023
37	0.230	0.230	0.276	0.207	0.115	0.069	0.253	0.161	0.253	0.276
38	0.023	0.023	0.069	0.000	0.000	0.000	0.000	0.023	0.000	0.023
39	0.246	0.253	0.115	0.192	0.138	0.115	0.161	0.161	0.184	0.146
40	0.023	0.023	0.046	0.023	0.000	0.000	0.000	0.023	0.000	0.023

Annex to 6209661.01COC

Test report "Utility interactive" for power generation units with an input current > 75A (VDE-AR-N 4105:2018-11)
Prüfbericht „Netzurückwirkungen“ für Erzeugungseinheiten mit einem Eingangsstrom > 75 A

Extract from test report for unit certificate "Determination of electrical properties" <i>Auszug aus dem Prüfbericht für Gerätezertifikat</i> <i>"Bestimmung elektrischer Eigenschaften"</i>	Report No.: 6209661.50 Bericht Nr.: 6209661.50
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Interharmonics / Zwischenharmonische:
 Model / Modell: SG2000
 Tested according to DIN VDE V 0124-100 clause 5.2.4 / geprüft nach DIN VDE V 0124-100 Punkt 5.2.4

Active power <i>Wirkleistung</i> P/P _n [%]	10	20	30	40	50	60	70	80	90	100
Frequency <i>Frequenz</i> [Hz]	I [%]	I [%]	I [%]	I [%]	I [%]	I [%]	I [%]	I [%]	I [%]	I [%]
75	0.092	0.069	0.069	0.046	0.046	0.046	0.046	0.046	0.069	0.084
125	0.069	0.069	0.046	0.046	0.023	0.023	0.023	0.023	0.046	0.038
175	0.069	0.069	0.046	0.046	0.023	0.023	0.023	0.023	0.046	0.045
225	0.069	0.069	0.046	0.046	0.023	0.023	0.023	0.023	0.046	0.042
275	0.069	0.069	0.046	0.046	0.023	0.023	0.023	0.023	0.023	0.022
325	0.069	0.069	0.046	0.046	0.023	0.023	0.023	0.023	0.023	0.022
375	0.069	0.069	0.046	0.046	0.023	0.023	0.023	0.023	0.023	0.022
425	0.069	0.069	0.046	0.046	0.023	0.023	0.023	0.023	0.023	0.022
475	0.069	0.069	0.046	0.046	0.023	0.023	0.023	0.023	0.023	0.022
525	0.069	0.069	0.046	0.046	0.023	0.023	0.023	0.023	0.023	0.023
575	0.069	0.069	0.046	0.046	0.023	0.023	0.023	0.023	0.023	0.023
625	0.069	0.069	0.046	0.046	0.023	0.023	0.023	0.023	0.023	0.023
675	0.069	0.069	0.046	0.046	0.023	0.023	0.023	0.023	0.023	0.023
725	0.069	0.069	0.046	0.046	0.023	0.023	0.023	0.023	0.023	0.023
775	0.069	0.069	0.046	0.046	0.023	0.023	0.023	0.023	0.023	0.022
825	0.069	0.069	0.046	0.046	0.023	0.023	0.023	0.023	0.023	0.023
875	0.069	0.046	0.046	0.046	0.023	0.023	0.023	0.023	0.023	0.023
925	0.069	0.069	0.046	0.046	0.023	0.023	0.023	0.023	0.023	0.023
975	0.069	0.069	0.046	0.046	0.023	0.023	0.023	0.023	0.023	0.023
1025	0.069	0.069	0.046	0.046	0.023	0.023	0.023	0.023	0.023	0.023
1075	0.069	0.069	0.046	0.046	0.023	0.023	0.023	0.023	0.023	0.023
1125	0.069	0.069	0.046	0.046	0.023	0.023	0.023	0.023	0.023	0.023
1175	0.069	0.069	0.046	0.046	0.023	0.023	0.023	0.023	0.023	0.023
1225	0.069	0.069	0.046	0.046	0.023	0.023	0.023	0.023	0.023	0.023
1275	0.069	0.069	0.046	0.046	0.023	0.023	0.023	0.023	0.023	0.023
1325	0.069	0.046	0.046	0.046	0.023	0.023	0.023	0.023	0.023	0.023
1375	0.069	0.046	0.046	0.046	0.023	0.023	0.023	0.023	0.023	0.023
1425	0.046	0.046	0.046	0.046	0.023	0.023	0.023	0.023	0.023	0.023
1475	0.046	0.046	0.046	0.046	0.023	0.023	0.023	0.023	0.023	0.023
1525	0.069	0.046	0.046	0.046	0.023	0.023	0.023	0.023	0.023	0.023
1575	0.046	0.046	0.046	0.046	0.023	0.023	0.023	0.023	0.023	0.023
1625	0.069	0.046	0.046	0.046	0.023	0.023	0.023	0.023	0.023	0.023
1675	0.046	0.046	0.046	0.046	0.023	0.023	0.023	0.023	0.023	0.023
1725	0.026	0.026	0.026	0.026	0.023	0.023	0.023	0.023	0.023	0.023
1775	0.026	0.026	0.026	0.026	0.023	0.023	0.023	0.023	0.023	0.023
1825	0.026	0.026	0.026	0.026	0.023	0.023	0.023	0.026	0.023	0.023
1875	0.026	0.026	0.026	0.026	0.023	0.023	0.023	0.026	0.023	0.023
1925	0.026	0.026	0.026	0.026	0.023	0.023	0.023	0.026	0.023	0.023
1975	0.026	0.026	0.026	0.026	0.023	0.023	0.023	0.026	0.023	0.023

Annex to 6209661.01COC

Test report "Utility interactive" for power generation units with an input current > 75A (VDE-AR-N 4105:2018-11)
Prüfbericht „Netzurückwirkungen“ für Erzeugungseinheiten mit einem Eingangsstrom > 75 A

Extract from test report for unit certificate "Determination of electrical properties" <i>Auszug aus dem Prüfbericht für Gerätezertifikat</i> <i>"Bestimmung elektrischer Eigenschaften"</i>	Report No.: 6209661.50 Bericht Nr.: 6209661.50
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Higher Frequencies / Höhere Frequenzen:
 Model / Modell: SG1600
 Tested according to DIN VDE V 0124-100 clause 5.2.4 / geprüft nach DIN VDE V 0124-100 Punkt 5.2.4

Active power <i>Wirkleistung</i> <i>P/P_n [%]</i>	10	20	30	40	50	60	70	80	90	100
Frequency <i>Frequenz [kHz]</i>	I [%]	I [%]	I [%]	I [%]	I [%]	I [%]	I [%]	I [%]	I [%]	I [%]
2.1	0.007	0.004	0.006	0.005	0.007	0.003	0.002	0.002	0.002	0.006
2.3	0.006	0.002	0.007	0.002	0.010	0.005	0.004	0.002	0.002	0.005
2.5	0.004	0.003	0.003	0.002	0.003	0.008	0.002	0.003	0.003	0.004
2.7	0.002	0.004	0.001	0.002	0.003	0.004	0.003	0.003	0.002	0.004
2.9	0.002	0.002	0.001	0.001	0.002	0.003	0.003	0.001	0.002	0.004
3.1	0.002	0.003	0.002	0.003	0.002	0.005	0.002	0.001	0.003	0.003
3.3	0.002	0.003	0.004	0.003	0.001	0.002	0.005	0.001	0.001	0.003
3.5	0.001	0.004	0.003	0.002	0.002	0.002	0.005	0.003	0.003	0.004
3.7	0.002	0.003	0.002	0.006	0.002	0.001	0.002	0.005	0.004	0.004
3.9	0.002	0.001	0.002	0.005	0.001	0.001	0.001	0.004	0.004	0.004
4.1	0.001	0.002	0.001	0.005	0.001	0.001	0.002	0.002	0.002	0.002
4.3	0.001	0.001	0.001	0.003	0.001	0.001	0.002	0.001	0.002	0.002
4.5	0.003	0.001	0.002	0.001	0.002	0.001	0.001	0.001	0.003	0.003
4.7	0.003	0.002	0.001	0.002	0.002	0.001	0.002	0.002	0.002	0.004
4.9	0.001	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.002	0.003
5.1	0.001	0.001	0.001	0.001	0.001	0.003	0.001	0.002	0.002	0.001
5.3	0.001	0.001	0.001	0.001	0.002	0.001	0.001	0.001	0.002	0.003
5.5	0.002	0.001	0.001	0.002	0.001	0.002	0.001	0.001	0.002	0.002
5.7	0.002	0.001	0.002	0.001	0.001	0.002	0.001	0.001	0.001	0.001
5.9	0.001	0.001	0.002	0.001	0.001	0.002	0.001	0.001	0.002	0.002
6.1	0.001	0.001	0.002	0.002	0.001	0.001	0.001	0.002	0.003	0.002
6.3	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002
6.5	0.001	0.001	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.002
6.7	0.001	0.001	0.002	0.001	0.001	0.001	0.001	0.001	0.000	0.001
6.9	0.001	0.002	0.001	0.001	0.001	0.000	0.002	0.001	0.001	0.002
7.1	0.001	0.001	0.001	0.001	0.001	0.000	0.002	0.002	0.002	0.002
7.3	0.001	0.001	0.001	0.001	0.001	0.000	0.001	0.002	0.003	0.002
7.5	0.001	0.001	0.002	0.001	0.001	0.001	0.001	0.001	0.002	0.002
7.7	0.001	0.001	0.001	0.003	0.001	0.001	0.000	0.001	0.001	0.001
7.9	0.001	0.001	0.001	0.003	0.001	0.001	0.000	0.002	0.001	0.001
8.1	0.001	0.002	0.002	0.002	0.001	0.002	0.001	0.002	0.002	0.002
8.3	0.001	0.001	0.001	0.002	0.001	0.001	0.000	0.001	0.002	0.003
8.5	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002
8.7	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
8.9	0.001	0.002	0.001	0.002	0.001	0.001	0.000	0.001	0.001	0.001

Annex to 6209661.01COC
Test report "Utility interactive" for power generation units with an input current > 75A (VDE-AR-N 4105:2018-11)
Prüfbericht „Netzurückwirkungen“ für Erzeugungseinheiten mit einem Eingangsstrom > 75 A
Extract from test report for unit certificate
"Determination of electrical properties"
Auszug aus dem Prüfbericht für Gerätezertifikat
"Bestimmung elektrischer Eigenschaften"

 Report No.: 6209661.50
 Bericht Nr.: 6209661.50

Higher Frequencies / Höhere Frequenzen:

Model / Modell: SG2000

Tested according to DIN VDE V 0124-100 clause 5.2.4 / geprüft nach DIN VDE V 0124-100 Punkt 5.2.4

Active power Wirkleistung P/P _n [%]	10	20	30	40	50	60	70	80	90	100
Frequency Frequenz [kHz]	I [%]	I [%]	I [%]	I [%]	I [%]	I [%]	I [%]	I [%]	I [%]	I [%]
2.1	0.008	0.005	0.007	0.006	0.008	0.004	0.003	0.003	0.003	0.007
2.3	0.007	0.003	0.008	0.003	0.011	0.006	0.005	0.003	0.003	0.006
2.5	0.005	0.004	0.004	0.003	0.004	0.009	0.003	0.004	0.004	0.005
2.7	0.003	0.005	0.002	0.003	0.004	0.005	0.004	0.004	0.003	0.005
2.9	0.003	0.003	0.002	0.002	0.003	0.004	0.004	0.002	0.003	0.005
3.1	0.003	0.004	0.003	0.004	0.003	0.006	0.003	0.002	0.004	0.004
3.3	0.003	0.004	0.005	0.004	0.002	0.003	0.006	0.002	0.002	0.004
3.5	0.002	0.005	0.004	0.003	0.003	0.003	0.006	0.004	0.004	0.005
3.7	0.003	0.004	0.003	0.007	0.003	0.002	0.003	0.006	0.005	0.005
3.9	0.003	0.002	0.003	0.006	0.002	0.002	0.002	0.005	0.005	0.005
4.1	0.002	0.003	0.002	0.006	0.002	0.002	0.003	0.003	0.003	0.003
4.3	0.002	0.002	0.002	0.004	0.002	0.002	0.003	0.002	0.003	0.003
4.5	0.004	0.002	0.003	0.002	0.003	0.002	0.002	0.002	0.004	0.004
4.7	0.004	0.003	0.002	0.003	0.003	0.002	0.003	0.003	0.003	0.005
4.9	0.002	0.003	0.003	0.003	0.003	0.003	0.002	0.002	0.003	0.004
5.1	0.002	0.002	0.002	0.002	0.002	0.004	0.002	0.003	0.003	0.002
5.3	0.002	0.002	0.002	0.002	0.003	0.002	0.002	0.002	0.003	0.004
5.5	0.003	0.002	0.002	0.003	0.002	0.003	0.002	0.002	0.003	0.003
5.7	0.003	0.002	0.003	0.002	0.002	0.003	0.002	0.002	0.002	0.002
5.9	0.002	0.002	0.003	0.002	0.002	0.003	0.002	0.002	0.003	0.003
6.1	0.002	0.002	0.003	0.003	0.002	0.002	0.002	0.003	0.004	0.003
6.3	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.003
6.5	0.002	0.002	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.003
6.7	0.002	0.002	0.003	0.002	0.002	0.002	0.002	0.002	0.001	0.002
6.9	0.002	0.003	0.002	0.002	0.002	0.001	0.003	0.002	0.002	0.003
7.1	0.002	0.002	0.002	0.002	0.002	0.001	0.003	0.003	0.003	0.003
7.3	0.002	0.002	0.002	0.002	0.002	0.001	0.002	0.003	0.004	0.003
7.5	0.002	0.002	0.003	0.002	0.002	0.002	0.002	0.002	0.003	0.003
7.7	0.002	0.002	0.002	0.004	0.002	0.002	0.001	0.002	0.002	0.002
7.9	0.002	0.002	0.002	0.004	0.002	0.002	0.001	0.003	0.002	0.002
8.1	0.002	0.003	0.003	0.003	0.002	0.003	0.002	0.003	0.003	0.003
8.3	0.002	0.002	0.002	0.003	0.002	0.002	0.001	0.002	0.003	0.004
8.5	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.003
8.7	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
8.9	0.002	0.003	0.002	0.003	0.002	0.002	0.001	0.002	0.002	0.002