



Product Service

Compliance Document

No. D 086470 0035 Rev. 00

Holder of Certificate: Ningbo Ginlong Technologies Co., Ltd.
 No.57 Jintong Road
 Binhai Industrial Park, Xiangshan
 315712 Ningbo, Zhejiang
 PEOPLE'S REPUBLIC OF CHINA

Product: Converter
 Grid-Tied Inverter

This Compliance document confirms the compliance with the listed standards on a voluntary basis. It refers only to the sample submitted for testing and certification and does not certify the quality or safety of the serial products. See also notes overleaf.

Test report no.: 704091716004-00

Date, 2018-08-29


 (Zhengdong Ma)

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Switching actions		
Making operation without default (of primary energy carrier)	k_i	0.127
Worst case at switch over of generator sections	k_i	-
Making operation at reference conditions (of primary energy carrier)	k_i	1.011
Breaking operation at nominal power	k_i	1.008
Worst-case value of all switching operations	k_{imax}	1.011

Flicker	Angle of network impedance ψ_k :	32° ¹⁾	50°	70°	85°
Solis-60K-4G	Coefficient of system flicker c_ψ :	Max. 3.28	-	-	-
Remark: ¹⁾ $R_A = 0.24 \Omega$; $X_A = j 0.15 \Omega$ at 50 Hz network impedance used for most unfavorable condition which is approximately 32° flicker angle.					

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Subharmonics (Solis-50K)											
Active power P/Pn[%]	0	10	20	30	40	50	60	70	80	90	100
Frequency [Hz]	I [%]	I [%]	I [%]	I [%]	I [%]	I [%]	I [%]	I [%]	I [%]	I [%]	I [%]
75	-	0.197	0.101	0.083	0.067	0.057	0.053	0.047	0.046	0.044	0.044
125	-	0.189	0.093	0.072	0.061	0.055	0.053	0.048	0.047	0.046	0.051
175	-	0.142	0.041	0.037	0.033	0.032	0.035	0.031	0.032	0.032	0.036
225	-	0.180	0.100	0.087	0.074	0.067	0.064	0.058	0.057	0.056	0.060
275	-	0.121	0.051	0.042	0.038	0.036	0.036	0.035	0.035	0.035	0.039
325	-	0.105	0.037	0.033	0.031	0.031	0.032	0.032	0.033	0.034	0.037
375	-	0.113	0.055	0.046	0.039	0.037	0.036	0.035	0.036	0.036	0.039
425	-	0.079	0.036	0.036	0.037	0.036	0.030	0.031	0.032	0.033	0.036
475	-	0.072	0.033	0.033	0.031	0.031	0.029	0.030	0.031	0.032	0.035
525	-	0.089	0.042	0.035	0.037	0.033	0.028	0.029	0.030	0.030	0.032
575	-	0.075	0.031	0.027	0.027	0.024	0.025	0.027	0.027	0.028	0.031
625	-	0.060	0.027	0.025	0.025	0.022	0.023	0.024	0.024	0.025	0.029
675	-	0.059	0.025	0.024	0.024	0.021	0.021	0.023	0.023	0.024	0.027
725	-	0.055	0.023	0.020	0.021	0.018	0.019	0.020	0.020	0.021	0.025
775	-	0.048	0.022	0.019	0.019	0.017	0.017	0.018	0.019	0.019	0.023
825	-	0.043	0.018	0.018	0.018	0.016	0.016	0.017	0.017	0.019	0.020
875	-	0.035	0.018	0.016	0.016	0.014	0.014	0.015	0.016	0.017	0.021
925	-	0.036	0.016	0.014	0.015	0.014	0.014	0.014	0.015	0.016	0.018
975	-	0.036	0.017	0.013	0.014	0.013	0.012	0.013	0.014	0.016	0.018
1025	-	0.023	0.015	0.012	0.012	0.011	0.012	0.013	0.013	0.014	0.014
1075	-	0.024	0.013	0.011	0.011	0.011	0.011	0.012	0.012	0.014	0.014
1125	-	0.024	0.014	0.010	0.011	0.010	0.010	0.011	0.012	0.012	0.012
1175	-	0.020	0.011	0.010	0.010	0.010	0.010	0.011	0.011	0.010	0.012
1225	-	0.018	0.010	0.010	0.010	0.009	0.009	0.009	0.010	0.009	0.011
1275	-	0.016	0.010	0.009	0.010	0.008	0.009	0.009	0.010	0.009	0.010
1325	-	0.017	0.010	0.010	0.010	0.009	0.008	0.009	0.010	0.010	0.011
1375	-	0.016	0.010	0.010	0.010	0.008	0.008	0.009	0.008	0.009	0.009
1425	-	0.016	0.009	0.009	0.010	0.008	0.008	0.009	0.009	0.009	0.010
1475	-	0.014	0.009	0.008	0.009	0.008	0.008	0.010	0.010	0.011	0.011
1525	-	0.014	0.009	0.008	0.008	0.007	0.009	0.009	0.008	0.008	0.009
1575	-	0.015	0.009	0.008	0.008	0.010	0.008	0.009	0.011	0.011	0.011
1625	-	0.014	0.009	0.009	0.009	0.010	0.012	0.014	0.015	0.016	0.018
1675	-	0.013	0.009	0.008	0.008	0.009	0.008	0.008	0.009	0.009	0.010
1725	-	0.014	0.008	0.009	0.009	0.009	0.011	0.012	0.014	0.015	0.016
1775	-	0.013	0.008	0.007	0.007	0.007	0.008	0.009	0.009	0.010	0.012
1825	-	0.013	0.008	0.007	0.007	0.007	0.007	0.007	0.007	0.008	0.008
1875	-	0.014	0.007	0.008	0.009	0.007	0.007	0.008	0.009	0.009	0.011
1925	-	0.013	0.008	0.007	0.007	0.007	0.008	0.008	0.008	0.009	0.010
1975	-	0.013	0.008	0.008	0.009	0.007	0.006	0.007	0.007	0.008	0.008

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