

Electromagnetic Compatibility (EMC) Part 3-12: Limits-Limits for harmonic current produced by equipment connected to public low-voltage systems with input current > 16A and ≤75A per phase	
Report Reference No.	CN22H1LL 001 Attachment
Tested by (name + signature)	See cover page
Witnessed by (name + signature)	See cover page
Supervised by (name + signature) ...	See cover page
Approved by (name + signature)	See cover page
Date of issue	See cover page
Testing Laboratory	TÜV Rheinland (Shanghai) Co., Ltd.
Address	No. 177, Lane 777 West Guangzhong Road, Jingan District, Shanghai, P.R.China
Testing location/ procedure	CBTL ☐ TMP ☐ WMT ☐ SMT ☐ RMT ☐ CCATL ☒
Testing location/ address	No. 1699, Xiyu Road, New & High Technology Industrial Development Zone, Hefei, Anhui 230088, P.R. CHINA
Applicant's name	Sungrow Power Supply Co., Ltd.
Address	No. 1699, Xiyu Road, New & High Technology Industrial Development Zone, Hefei, Anhui 230088, P.R. CHINA
Test specification:	
Standard	IEC 61000-3-12: 2011
Test procedure	TR
Non-standard test method	N/A
Test Report Form No.	MS-0024873-appendix 17 V.0
Test Report Form(s) Originator	TÜV Rheinland Group
Master TRF	2017-08
Test item description	Grid-connected PV Inverter
Trade Mark	
Manufacturer	Same as the applicant
Model/Type reference	See the cover page
Ratings	See copy of marking plate for details

4.2 Harmonic current_100%Pn(SG33CX-P2)				P
Watts		33126.24		
VA		33138.49		
Vrms		230.46/230.71/230.55		
Arms		48.00/47.87/47.81		
PF		1.00		
Frequency(Hz)		50.00		
Harmonic	Measurement value(%)			Limit (%)
	A	B	C	
2nd	0.059	0.053	0.055	8
3rd	0.150	0.046	0.121	N/A
4th	0.071	0.035	0.053	4.00
5th	0.075	0.027	0.081	10.70
6th	0.027	0.027	0.034	2.67
7th	0.046	0.013	0.048	7.20
8th	0.034	0.105	0.084	2.00
9th	0.040	0.017	0.043	N/A
10th	0.080	0.047	0.062	1.60
11th	0.207	0.178	0.187	3.10
12th	0.030	0.016	0.018	1.33
13th	0.614	0.628	0.620	2.00
14th	0.053	0.069	0.045	N/A
15th	0.034	0.013	0.029	N/A
16th	0.063	0.050	0.062	N/A
17th	0.189	0.185	0.132	N/A
18th	0.012	0.018	0.025	N/A
19th	0.460	0.460	0.461	N/A
20th	0.045	0.063	0.068	N/A
21th	0.036	0.025	0.027	N/A
22th	0.040	0.049	0.044	N/A
23th	0.175	0.189	0.176	N/A
24th	0.020	0.013	0.027	N/A
25th	0.361	0.363	0.375	N/A
26th	0.030	0.037	0.028	N/A
27th	0.053	0.007	0.050	N/A
28th	0.030	0.052	0.045	N/A
29th	0.121	0.151	0.124	N/A
30th	0.020	0.011	0.015	N/A
31th	0.275	0.245	0.256	N/A
32th	0.048	0.039	0.035	N/A
33th	0.017	0.015	0.029	N/A
34th	0.048	0.023	0.046	N/A
35th	0.129	0.139	0.101	N/A
36th	0.013	0.023	0.035	N/A
37th	0.200	0.213	0.216	N/A
38th	0.025	0.025	0.036	N/A
39th	0.007	0.015	0.016	N/A
40th	0.026	0.025	0.035	N/A
THD	1.024	1.015	1.015	13
PWHD	3.745	3.755	3.720	22
Note:				

4.2 Harmonic current_100%Pn(SG50CX-P2)				P
Watts	50277.20			
VA	50290.42			
Vrms	230.39/230.34/230.36			
Arms	72.97/72.49/72.82			
PF	1.00			
Frequency(Hz)	50.00			
Harmonic	Measurement value(%)			Limit (%)
	A	B	C	
2nd	0.555	0.667	0.362	8
3rd	0.064	0.088	0.068	N/A
4th	0.302	0.210	0.307	4.00
5th	0.103	0.059	0.059	10.70
6th	0.045	0.066	0.056	2.67
7th	0.072	0.086	0.091	7.20
8th	0.081	0.072	0.060	2.00
9th	0.061	0.079	0.058	N/A
10th	0.070	0.076	0.053	1.60
11th	1.006	0.957	0.972	3.10
12th	0.041	0.041	0.044	1.33
13th	0.371	0.400	0.379	2.00
14th	0.051	0.054	0.049	N/A
15th	0.052	0.073	0.048	N/A
16th	0.061	0.084	0.074	N/A
17th	0.430	0.397	0.399	N/A
18th	0.052	0.044	0.048	N/A
19th	0.357	0.353	0.344	N/A
20th	0.074	0.071	0.055	N/A
21th	0.051	0.060	0.054	N/A
22th	0.058	0.068	0.056	N/A
23th	0.276	0.284	0.269	N/A
24th	0.044	0.039	0.041	N/A
25th	0.183	0.223	0.196	N/A
26th	0.069	0.062	0.054	N/A
27th	0.045	0.046	0.046	N/A
28th	0.052	0.047	0.054	N/A
29th	0.213	0.206	0.185	N/A
30th	0.044	0.040	0.039	N/A
31th	0.152	0.144	0.139	N/A
32th	0.046	0.044	0.046	N/A
33th	0.045	0.044	0.044	N/A
34th	0.039	0.042	0.041	N/A
35th	0.137	0.139	0.140	N/A
36th	0.035	0.035	0.035	N/A
37th	0.126	0.118	0.110	N/A
38th	0.041	0.032	0.041	N/A
39th	0.038	0.036	0.037	N/A
40th	0.036	0.040	0.037	N/A
THD	1.469	1.472	1.364	13
PWHD	3.549	3.527	3.373	22
Note: As requested by manufacturer, tested according to IEC 61000-3-12: 2011.				