

4.8 EMC and power quality Harmonic current emission (EN 61000-3-2)				P
Test result: SUN2000-2KTL-L1				
Watts [KW]			2,094	
Vrms [V]			230,56	
Arms [A]			9,085	
Frequency [Hz]			50,00	
THD50* (100% output power)			1,342%	
Harmonic order n	Current Magnitude [A] at 100% rated output power	% of Fundamental	Phase	Harmonic Current Limits [A]
1st	9,086	104,431	Single Phase	--
2nd	0,009	0,102	Single Phase	1,080
3rd	0,074	0,851	Single Phase	2,300
4th	0,020	0,233	Single Phase	0,430
5th	0,059	0,683	Single Phase	1,140
6th	0,012	0,138	Single Phase	0,300
7th	0,029	0,337	Single Phase	0,770
8th	0,010	0,114	Single Phase	0,230
9th	0,021	0,237	Single Phase	0,400
10th	0,004	0,041	Single Phase	0,184
11th	0,021	0,239	Single Phase	0,330
12th	0,003	0,035	Single Phase	0,153
13th	0,020	0,226	Single Phase	0,210
14th	0,005	0,060	Single Phase	0,131
15th	0,016	0,180	Single Phase	0,150
16th	0,004	0,041	Single Phase	0,115
17th	0,011	0,123	Single Phase	0,132
18th	0,004	0,049	Single Phase	0,102
19th	0,014	0,165	Single Phase	0,118
20th	0,003	0,037	Single Phase	0,092
21th	0,015	0,168	Single Phase	0,107
22th	0,003	0,039	Single Phase	0,084
23th	0,014	0,161	Single Phase	0,098
24th	0,004	0,043	Single Phase	0,077
25th	0,013	0,148	Single Phase	0,090
26th	0,003	0,037	Single Phase	0,071
27th	0,013	0,150	Single Phase	0,083
28th	0,003	0,035	Single Phase	0,066
29th	0,011	0,130	Single Phase	0,078
30th	0,003	0,035	Single Phase	0,061
31th	0,012	0,138	Single Phase	0,073
32th	0,003	0,033	Single Phase	0,058
33th	0,012	0,140	Single Phase	0,680
34th	0,003	0,034	Single Phase	0,054
35th	0,011	0,129	Single Phase	0,064
36th	0,003	0,036	Single Phase	0,051
37th	0,010	0,118	Single Phase	0,061
38th	0,003	0,035	Single Phase	0,048
39th	0,009	0,107	Single Phase	0,058
40th	0,003	0,036	Single Phase	0,046
41th	0,010	0,112	Single Phase	N/A
42th	0,003	0,037	Single Phase	N/A
43th	0,009	0,100	Single Phase	N/A

44th	0,003	0,039	Single Phase	N/A
45th	0,008	0,088	Single Phase	N/A
46th	0,003	0,038	Single Phase	N/A
47th	0,008	0,088	Single Phase	N/A
48th	0,003	0,040	Single Phase	N/A
49th	0,006	0,067	Single Phase	N/A
50th	0,004	0,042	Single Phase	N/A

Note:

The tests should be based on the limits of the EN 61000-3-2 for less than 16A.

The tests had been performed on the SUN2000-6KTL-L1 are valid for the SUN2000-2KTL-L1, SUN2000-3KTL-1, SUN2000-3.68KTL-L1, SUN2000-4KTL-L1, SUN2000-4.6KTL-L1 and SUN2000-5KTL-L1 since it is same as in hardware and just power derated by software.

4.8 EMC and power quality Harmonic current emission (EN 61000-3-12)				P
Test result: SUN2000-6KTL-L1				
Watts [KW]		5,935		
Vrms [V]		230,53		
Arms [A]		25,749		
Frequency [Hz]		50,00		
THD50* (100% output power)		0,792		
Harmonic order n	Current Magnitude [A] at 100% rated output power	% of Fundamental	Phase	Harmonic Current Limits [%]
1st	25,749	98,694	Single Phase	--
2nd	0,039	0,148	Single Phase	8,000
3rd	0,151	0,578	Single Phase	21,600
4th	0,016	0,060	Single Phase	4,000
5th	0,064	0,245	Single Phase	10,700
6th	0,022	0,084	Single Phase	2,667
7th	0,045	0,173	Single Phase	7,200
8th	0,014	0,055	Single Phase	2,000
9th	0,031	0,117	Single Phase	3,800
10th	0,009	0,033	Single Phase	1,600
11th	0,027	0,105	Single Phase	3,100
12th	0,010	0,037	Single Phase	1,333
13th	0,020	0,076	Single Phase	2,000
14th	0,012	0,047	Single Phase	8,000
15th	0,022	0,083	Single Phase	N/A
16th	0,007	0,026	Single Phase	N/A
17th	0,017	0,064	Single Phase	N/A
18th	0,005	0,020	Single Phase	N/A
19th	0,013	0,050	Single Phase	N/A
20th	0,005	0,018	Single Phase	N/A
21th	0,016	0,062	Single Phase	N/A
22th	0,005	0,019	Single Phase	N/A
23th	0,015	0,056	Single Phase	N/A
24th	0,005	0,019	Single Phase	N/A
25th	0,013	0,051	Single Phase	N/A
26th	0,004	0,016	Single Phase	N/A
27th	0,015	0,056	Single Phase	N/A
28th	0,005	0,018	Single Phase	N/A
29th	0,014	0,055	Single Phase	N/A
30th	0,004	0,016	Single Phase	N/A
31th	0,016	0,061	Single Phase	N/A
32th	0,004	0,015	Single Phase	N/A
33th	0,019	0,072	Single Phase	N/A
34th	0,004	0,014	Single Phase	N/A
35th	0,019	0,074	Single Phase	N/A
36th	0,004	0,014	Single Phase	N/A
37th	0,020	0,077	Single Phase	N/A
38th	0,004	0,014	Single Phase	N/A
39th	0,020	0,076	Single Phase	N/A
40th	0,004	0,014	Single Phase	N/A
41th	0,020	0,078	Single Phase	N/A
42th	0,004	0,015	Single Phase	N/A
43th	0,023	0,088	Single Phase	N/A

44th	0,004	0,015	Single Phase	N/A
45th	0,024	0,091	Single Phase	N/A
46th	0,004	0,016	Single Phase	N/A
47th	0,024	0,094	Single Phase	N/A
48th	0,004	0,015	Single Phase	N/A
49th	0,023	0,088	Single Phase	N/A
50th	0,004	0,014	Single Phase	N/A

Note:

The tests should be based on the limits of the EN 61000-3-12 for more than 16A.

The tests had been performed on the SUN2000-6KTL-L1 are valid for the SUN2000-2KTL-L1, SUN2000-3KTL-1, SUN2000-3.68KTL-L1, SUN2000-4KTL-L1, SUN2000-4.6KTL-L1 and SUN2000-5KTL-L1 since it is same as in hardware and just power derated by software.