

Harmonic emissions

The following harmonic data is from page 144 of the 25-50K-G3 Ireland report, and the actual data is based on the report.

Model: SOFAR 36KTLX-G3								
Nr./Order	Current Magnitude (A) at 33% rated output power			% of Fundamental			Phase	Limit (%)
	Phase A	Phase B	Phase C	Phase A	Phase B	Phase C		
2	0.010	0.010	0.006	0.020	0.020	0.011	Three phase	8.00
3	0.031	0.013	0.020	0.059	0.024	0.038	Three phase	--
4	0.013	0.006	0.013	0.025	0.012	0.024	Three phase	4.00
5	0.106	0.133	0.118	0.203	0.255	0.227	Three phase	10.70
6	0.009	0.013	0.011	0.017	0.025	0.021	Three phase	2.70
7	0.039	0.034	0.029	0.074	0.065	0.056	Three phase	7.20
8	0.018	0.016	0.015	0.035	0.031	0.029	Three phase	2.00
9	0.006	0.013	0.011	0.012	0.026	0.021	Three phase	--
10	0.023	0.019	0.018	0.044	0.036	0.035	Three phase	1.60
11	0.118	0.106	0.110	0.227	0.204	0.210	Three phase	3.10
12	0.007	0.005	0.008	0.014	0.010	0.016	Three phase	1.30
13	0.103	0.102	0.112	0.197	0.196	0.215	Three phase	2.00
14	0.018	0.014	0.014	0.034	0.027	0.027	Three phase	--
15	0.008	0.008	0.008	0.016	0.016	0.015	Three phase	--
16	0.016	0.016	0.013	0.031	0.031	0.025	Three phase	--
17	0.095	0.097	0.091	0.183	0.186	0.174	Three phase	--
18	0.007	0.007	0.006	0.013	0.014	0.011	Three phase	--
19	0.075	0.075	0.081	0.144	0.143	0.155	Three phase	--
20	0.010	0.009	0.007	0.019	0.018	0.014	Three phase	--
21	0.009	0.010	0.007	0.018	0.018	0.014	Three phase	--
22	0.008	0.011	0.010	0.015	0.021	0.020	Three phase	--
23	0.043	0.048	0.045	0.083	0.092	0.087	Three phase	--
24	0.006	0.006	0.005	0.012	0.011	0.009	Three phase	--
25	0.030	0.021	0.025	0.057	0.040	0.048	Three phase	--
26	0.012	0.011	0.007	0.023	0.021	0.013	Three phase	--
27	0.011	0.013	0.011	0.021	0.024	0.021	Three phase	--
28	0.010	0.011	0.009	0.018	0.021	0.017	Three phase	--
29	0.014	0.009	0.014	0.028	0.018	0.027	Three phase	--
30	0.005	0.005	0.006	0.010	0.010	0.012	Three phase	--
31	0.031	0.022	0.024	0.059	0.042	0.047	Three phase	--
32	0.008	0.009	0.008	0.016	0.018	0.016	Three phase	--
33	0.009	0.010	0.007	0.018	0.019	0.013	Three phase	--
34	0.009	0.009	0.005	0.017	0.018	0.010	Three phase	--
35	0.035	0.034	0.037	0.067	0.065	0.071	Three phase	--
36	0.005	0.005	0.005	0.009	0.010	0.010	Three phase	--
37	0.036	0.037	0.038	0.069	0.071	0.072	Three phase	--
38	0.005	0.006	0.006	0.009	0.012	0.012	Three phase	--
39	0.007	0.005	0.005	0.014	0.010	0.010	Three phase	--
40	0.006	0.009	0.006	0.011	0.017	0.012	Three phase	--
41	0.032	0.028	0.029	0.061	0.054	0.055	Three phase	--
42	0.005	0.005	0.004	0.010	0.010	0.008	Three phase	--
43	0.025	0.026	0.021	0.047	0.049	0.040	Three phase	--



44	0.007	0.008	0.005	0.013	0.015	0.010	Three phase	--
45	0.006	0.006	0.007	0.012	0.012	0.014	Three phase	--
46	0.010	0.010	0.011	0.019	0.020	0.021	Three phase	--
47	0.015	0.015	0.018	0.029	0.029	0.035	Three phase	--
48	0.005	0.006	0.005	0.010	0.011	0.009	Three phase	--
49	0.023	0.033	0.024	0.045	0.064	0.046	Three phase	--
50	0.010	0.009	0.008	0.020	0.017	0.016	Three phase	--
THD (%)	--	--	--	0.365	0.365	0.371	--	13.000
PWHD (%)	--	--	--	1.038	1.033	0.995	--	22.000
Nr./Order	Current Magnitude (A) at 66% rated output power			% of Fundamental			Phase	Limit (%)
	Phase A	Phase B	Phase C	Phase A	Phase B	Phase C		
2	0.067	0.064	0.060	0.128	0.123	0.115	Three phase	8.00
3	0.055	0.023	0.038	0.104	0.045	0.073	Three phase	--
4	0.010	0.014	0.017	0.019	0.026	0.032	Three phase	4.00
5	0.378	0.401	0.372	0.724	0.769	0.713	Three phase	10.70
6	0.008	0.014	0.012	0.016	0.027	0.023	Three phase	2.70
7	0.181	0.168	0.181	0.346	0.322	0.347	Three phase	7.20
8	0.015	0.014	0.011	0.029	0.028	0.021	Three phase	2.00
9	0.012	0.009	0.016	0.023	0.017	0.031	Three phase	--
10	0.020	0.016	0.015	0.039	0.030	0.029	Three phase	1.60
11	0.032	0.042	0.047	0.061	0.081	0.090	Three phase	3.10
12	0.007	0.006	0.009	0.014	0.012	0.016	Three phase	1.30
13	0.040	0.038	0.043	0.076	0.073	0.082	Three phase	2.00
14	0.022	0.016	0.016	0.042	0.032	0.031	Three phase	--
15	0.008	0.009	0.009	0.016	0.018	0.017	Three phase	--
16	0.023	0.021	0.019	0.043	0.039	0.037	Three phase	--
17	0.094	0.089	0.089	0.180	0.171	0.171	Three phase	--
18	0.007	0.006	0.008	0.013	0.012	0.015	Three phase	--
19	0.100	0.101	0.108	0.191	0.194	0.206	Three phase	--
20	0.017	0.013	0.015	0.032	0.026	0.029	Three phase	--
21	0.010	0.008	0.007	0.019	0.014	0.014	Three phase	--
22	0.015	0.018	0.012	0.028	0.035	0.024	Three phase	--
23	0.090	0.094	0.090	0.173	0.181	0.173	Three phase	--
24	0.006	0.006	0.007	0.012	0.011	0.014	Three phase	--
25	0.093	0.098	0.091	0.178	0.188	0.174	Three phase	--
26	0.008	0.008	0.008	0.016	0.015	0.016	Three phase	--
27	0.008	0.008	0.007	0.015	0.016	0.013	Three phase	--
28	0.008	0.012	0.009	0.015	0.024	0.018	Three phase	--
29	0.078	0.070	0.071	0.149	0.134	0.136	Three phase	--
30	0.006	0.006	0.006	0.012	0.011	0.011	Three phase	--
31	0.074	0.073	0.079	0.143	0.139	0.151	Three phase	--
32	0.006	0.006	0.005	0.011	0.012	0.010	Three phase	--
33	0.008	0.010	0.012	0.015	0.019	0.023	Three phase	--
34	0.005	0.008	0.008	0.010	0.014	0.015	Three phase	--
35	0.055	0.053	0.057	0.106	0.101	0.108	Three phase	--
36	0.006	0.004	0.005	0.011	0.009	0.010	Three phase	--
37	0.048	0.045	0.047	0.093	0.087	0.089	Three phase	--
38	0.007	0.007	0.005	0.014	0.013	0.010	Three phase	--
39	0.005	0.008	0.011	0.010	0.015	0.021	Three phase	--
40	0.007	0.010	0.010	0.014	0.018	0.020	Three phase	--
41	0.033	0.032	0.030	0.063	0.060	0.057	Three phase	--
42	0.006	0.004	0.005	0.011	0.008	0.009	Three phase	--



43	0.026	0.029	0.018	0.049	0.055	0.035	Three phase	--
44	0.009	0.009	0.006	0.017	0.016	0.011	Three phase	--
45	0.006	0.007	0.009	0.012	0.014	0.018	Three phase	--
46	0.010	0.009	0.011	0.019	0.018	0.022	Three phase	--
47	0.015	0.018	0.021	0.029	0.034	0.041	Three phase	--
48	0.005	0.004	0.005	0.010	0.008	0.010	Three phase	--
49	0.008	0.021	0.019	0.015	0.039	0.036	Three phase	--
50	0.009	0.010	0.008	0.018	0.020	0.016	Three phase	--
THD (%)	--	--	--	0.465	0.462	0.465	--	13.000
PWHD (%)	--	--	--	1.797	1.789	1.785	--	22.000
Nr./Order	Current Magnitude (A) at 100% rated output power			% of Fundamental			Phase	Limit (%)
	Phase A	Phase B	Phase C	Phase A	Phase B	Phase C		
2	0.162	0.175	0.149	0.311	0.335	0.286	Three phase	8.00
3	0.081	0.042	0.077	0.154	0.080	0.147	Three phase	--
4	0.031	0.017	0.038	0.059	0.033	0.073	Three phase	4.00
5	0.689	0.728	0.698	1.321	1.395	1.338	Three phase	10.70
6	0.011	0.015	0.014	0.021	0.028	0.027	Three phase	2.70
7	0.324	0.294	0.317	0.622	0.564	0.608	Three phase	7.20
8	0.024	0.028	0.018	0.046	0.054	0.034	Three phase	2.00
9	0.021	0.014	0.025	0.040	0.026	0.047	Three phase	--
10	0.033	0.027	0.028	0.063	0.051	0.053	Three phase	1.60
11	0.075	0.079	0.066	0.143	0.151	0.126	Three phase	3.10
12	0.010	0.009	0.010	0.019	0.016	0.019	Three phase	1.30
13	0.062	0.072	0.067	0.119	0.137	0.128	Three phase	2.00
14	0.023	0.023	0.023	0.044	0.044	0.044	Three phase	--
15	0.015	0.015	0.017	0.029	0.029	0.033	Three phase	--
16	0.027	0.026	0.022	0.052	0.050	0.043	Three phase	--
17	0.142	0.141	0.143	0.273	0.270	0.274	Three phase	--
18	0.008	0.009	0.009	0.016	0.016	0.016	Three phase	--
19	0.160	0.163	0.171	0.307	0.312	0.327	Three phase	--
20	0.015	0.012	0.014	0.029	0.023	0.028	Three phase	--
21	0.015	0.010	0.013	0.028	0.019	0.025	Three phase	--
22	0.014	0.014	0.012	0.026	0.027	0.022	Three phase	--
23	0.138	0.142	0.139	0.265	0.273	0.267	Three phase	--
24	0.007	0.006	0.007	0.013	0.012	0.013	Three phase	--
25	0.136	0.143	0.143	0.261	0.274	0.275	Three phase	--
26	0.007	0.009	0.009	0.014	0.017	0.017	Three phase	--
27	0.010	0.010	0.011	0.020	0.018	0.020	Three phase	--
28	0.006	0.008	0.007	0.012	0.016	0.014	Three phase	--
29	0.110	0.100	0.105	0.212	0.191	0.202	Three phase	--
30	0.006	0.006	0.006	0.012	0.011	0.011	Three phase	--
31	0.101	0.099	0.108	0.194	0.190	0.207	Three phase	--
32	0.009	0.009	0.008	0.016	0.017	0.015	Three phase	--
33	0.011	0.010	0.014	0.022	0.020	0.026	Three phase	--
34	0.007	0.008	0.010	0.013	0.015	0.019	Three phase	--
35	0.082	0.087	0.086	0.156	0.166	0.166	Three phase	--
36	0.006	0.005	0.005	0.011	0.010	0.010	Three phase	--
37	0.069	0.061	0.060	0.132	0.117	0.115	Three phase	--
38	0.009	0.008	0.007	0.016	0.016	0.013	Three phase	--
39	0.008	0.006	0.009	0.015	0.011	0.017	Three phase	--
40	0.008	0.008	0.011	0.016	0.016	0.020	Three phase	--
41	0.058	0.051	0.053	0.112	0.099	0.101	Three phase	--



42	0.005	0.005	0.005	0.010	0.009	0.009	Three phase	--
43	0.039	0.044	0.037	0.074	0.085	0.070	Three phase	--
44	0.009	0.010	0.008	0.018	0.019	0.016	Three phase	--
45	0.006	0.006	0.009	0.011	0.012	0.017	Three phase	--
46	0.010	0.009	0.011	0.019	0.017	0.021	Three phase	--
47	0.031	0.029	0.032	0.060	0.056	0.061	Three phase	--
48	0.005	0.005	0.006	0.010	0.010	0.011	Three phase	--
49	0.008	0.022	0.021	0.014	0.042	0.040	Three phase	--
50	0.008	0.011	0.007	0.015	0.022	0.013	Three phase	--
THD (%)	--	--	--	0.693	0.697	0.709	--	13.000
PWHD (%)	--	--	--	2.596	2.575	2.630	--	22.000

