

Declaration of Conformity

Harmonic Currents

Inverter: **SolarMax 8MT2**

Company: Sputnik Engineering AG
Länggasse 85
CH-2504 Biel-Bienne

Relevant standard: EN 61000-3-2

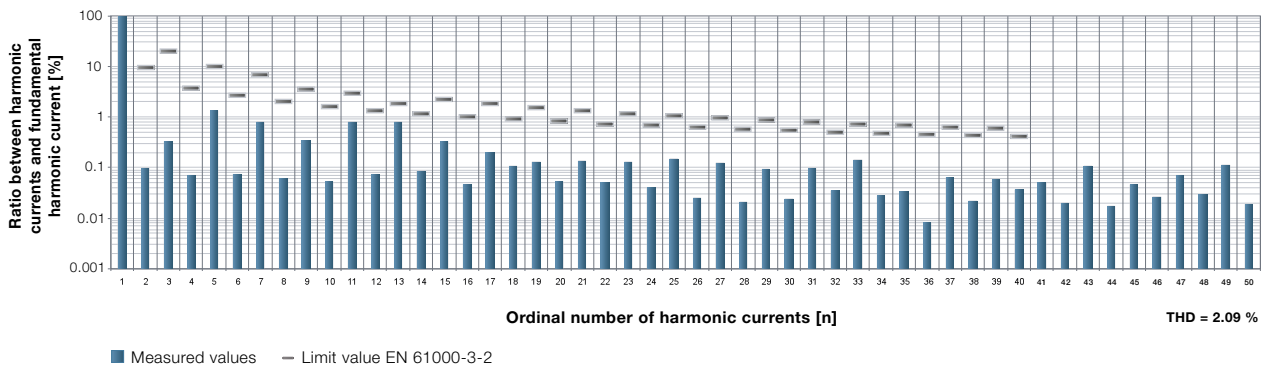
Measured values:

Ratio between harmonic currents (I_n) and fundamental harmonic current (I_1):

Ordinal number [n]	2	3	4	5	6	7	8	9	10	11	12	13	14
I_n/I_1 [%]	0.096	0.333	0.069	1.345	0.073	0.805	0.060	0.346	0.052	0.791	0.072	0.811	0.085
Ordinal number [n]	15	16	17	18	19	20	21	22	23	24	25	26	27
I_n/I_1 [%]	0.335	0.046	0.191	0.108	0.131	0.052	0.132	0.051	0.130	0.040	0.149	0.025	0.124
Ordinal number [n]	28	29	30	31	32	33	34	35	36	37	38	39	40
I_n/I_1 [%]	0.020	0.091	0.023	0.098	0.034	0.144	0.027	0.033	0.008	0.062	0.021	0.058	0.035
Ordinal number [n]	41	42	43	44	45	46	47	48	49	50			
I_n/I_1 [%]	0.05	0.020	0.105	0.017	0.046	0.025	0.069	0.028	0.112	0.018			

Reference current I_1 : 11.26A

Harmonic currents at rated output power
SolarMax 8MT2



Higher Frequencies

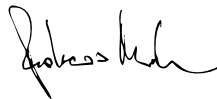
Frequency [Hz]	2100	2300	2500	2700	2900	3100	3300	3500	3700	3900	4100	4300	4500
Ratio between harmonic currents and fundamental harmonic current [%]	0.125	0.106	0.228	0.410	0.189	0.109	0.067	0.081	0.066	0.057	0.080	0.075	0.064
Frequency [Hz]	4700	4900	5100	5300	5500	5700	5900	6100	6300	6500	6700	6900	7100
Ratio between harmonic currents and fundamental harmonic current [%]	0.060	0.059	0.066	0.073	0.061	0.070	0.071	0.081	0.058	0.071	0.074	0.066	0.078
Frequency [Hz]	7300	7500	7700	7900	8100	8300	8500	8700	8900				
Ratio between harmonic currents and fundamental harmonic current [%]	0.067	0.072	0.066	0.055	0.074	0.049	0.062	0.062	0.061				

Interharmonics

Frequency [Hz]	75	125	175	225	275	325	375	425	475	525	575	625	675
Ratio between harmonic currents and fundamental harmonic current [%]	0.025	0.019	0.050	0.040	0.041	0.027	0.019	0.043	0.021	0.041	0.044	0.052	0.030
Frequency [Hz]	725	775	825	875	925	975	1025	1075	1125	1175	1225	1275	1325
Ratio between harmonic currents and fundamental harmonic current [%]	0.087	0.025	0.065	0.084	0.039	0.049	0.006	0.023	0.039	0.030	0.030	0.025	0.010
Frequency [Hz]	1375	1425	1475	1525	1575	1625	1675	1725	1775	1825	1875	1925	1975
Ratio between harmonic currents and fundamental harmonic current [%]	0.016	0.028	0.025	0.012	0.030	0.014	0.020	0.014	0.031	0.028	0.018	0.028	0.009

Biel/Bienne, 28.01.2013

Sputnik Engineering AG



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