

Declaration of Conformity

Harmonic Currents

Inverter: **SolarMax 30HT4 / 32HT4 / 32HT2**

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

Relevant standard: EN 61000-3-12 / IEC 61000-3-4

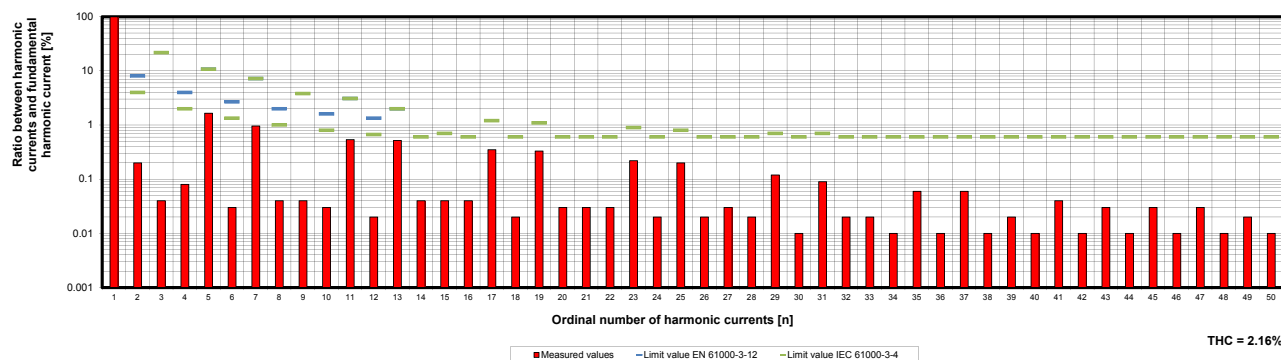
Measured values:

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 [%]	0.200	0.040	0.080	1.660	0.030	0.960	0.040	0.040	0.030	0.540	0.020	0.520	0.040
Ordinal number [n]	15	16	17	18	19	20	21	22	23	24	25	26	27
I_n/I_1 [%]	0.040	0.040	0.350	0.020	0.330	0.030	0.030	0.030	0.220	0.020	0.200	0.020	0.030
Ordinal number [n]	28	29	30	31	32	33	34	35	36	37	38	39	40
I_n/I_1 [%]	0.020	0.120	0.010	0.090	0.020	0.020	0.010	0.060	0.010	0.060	0.010	0.020	0.010
Ordinal number [n]	41	42	43	44	45	46	47	48	49	50			
I_n/I_1 [%]	0.040	0.010	0.030	0.010	0.030	0.010	0.030	0.010	0.020	0.010			

Reference current I_1 : 43.5A

Harmonic currents at rated output power SolarMax 30HT4 / 32HT4 / 32HT2



Higher Frequencies

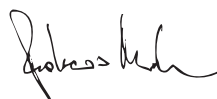
Frequenz [Hz]	2100	2300	2500	2700	2900	3100	3300	3500	3700	3900	4100	4300	4500
I_n/I_1 [%]	0.060	0.050	0.040	0.030	0.030	0.020	0.020	0.020	0.020	0.040	0.040	0.050	0.080
Frequenz [Hz]	4700	4900	5100	5300	5500	5700	5900	6100	6300	6500	6700	6900	7100
I_n/I_1 [%]	0.080	0.080	0.130	0.140	0.160	0.260	0.250	0.270	0.260	0.110	0.120	0.090	0.050
Frequenz [Hz]	7300	7500	7700	7900	8100	8300	8500	8700	8900				
I_n/I_1 [%]	0.060	0.050	0.040	0.270	0.240	0.030	0.040	0.030	0.030				

Interharmonics

Frequenz [Hz]	75	125	175	225	275	325	375	425	475	525	575	625	675
I_n/I_1 [%]	0.100	0.040	0.040	0.040	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030
Frequenz [Hz]	725	775	825	875	925	975	1025	1075	1125	1175	1225	1275	1325
I_n/I_1 [%]	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.020	0.060	0.030	0.020
Frequenz [Hz]	1375	1425	1475	1525	1575	1625	1675	1725	1775	1825	1875	1925	1975
I_n/I_1 [%]	0.020	0.020	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010

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Sputnik Engineering AG



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