

Declaration of Conformity

Harmonic Currents

Inverter: **SolarMax 10MT2**

Company: SolarMax Produktions GmbH
Zur Schönhalde 10
D-89352 Ellzee

Relevant standard: EN 61000-3-2

Measured values:

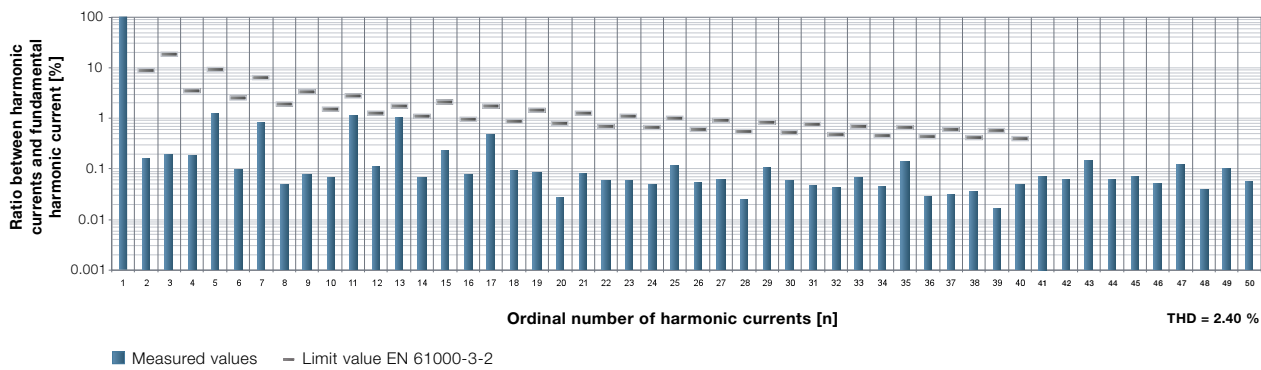
(Measurements recorded by Sputnik Engineering AG)

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 [%]	0.163	0.200	0.187	1.339	0.104	0.874	0.051	0.081	0.070	1.209	0.118	1.091	0.070
Ordinal number [n]	15	16	17	18	19	20	21	22	23	24	25	26	27
I_n/I_1 [%]	0.241	0.082	0.494	0.099	0.089	0.028	0.086	0.060	0.062	0.050	0.124	0.056	0.065
Ordinal number [n]	28	29	30	31	32	33	34	35	36	37	38	39	40
I_n/I_1 [%]	0.025	0.110	0.061	0.049	0.045	0.069	0.047	0.142	0.029	0.032	0.037	0.016	0.050
Ordinal number [n]	41	42	43	44	45	46	47	48	49	50			
I_n/I_1 [%]	0.076	0.064	0.149	0.063	0.073	0.052	0.127	0.040	0.109	0.059			

Reference current I_1 : 13.67A

Harmonic currents at rated output power
SolarMax 10MT2



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 [%]	0.199	0.179	0.167	0.496	0.176	0.106	0.114	0.084	0.121	0.118	0.117	0.113	0.118
Frequency [Hz]	4700	4900	5100	5300	5500	5700	5900	6100	6300	6500	6700	6900	7100
Ratio between harmonic currents and fundamental harmonic current [%]	0.103	0.128	0.103	0.091	0.092	0.107	0.097	0.108	0.105	0.118	0.106	0.093	0.092
Frequency [Hz]	7300	7500	7700	7900	8100	8300	8500	8700	8900				
Ratio between harmonic currents and fundamental harmonic current [%]	0.095	0.093	0.100	0.095	0.115	0.109	0.114	0.125	0.119				

Interharmonics

Frequency [Hz]	75	125	175	225	275	325	375	425	475	525	575	625	675
Ratio between harmonic currents and fundamental harmonic current [%]	0.056	0.074	0.040	0.070	0.024	0.052	0.044	0.076	0.068	0.038	0.087	0.033	0.107
Frequency [Hz]	725	775	825	875	925	975	1025	1075	1125	1175	1225	1275	1325
Ratio between harmonic currents and fundamental harmonic current [%]	0.062	0.056	0.036	0.033	0.032	0.062	0.038	0.036	0.038	0.031	0.036	0.055	0.028
Frequency [Hz]	1375	1425	1475	1525	1575	1625	1675	1725	1775	1825	1875	1925	1975
Ratio between harmonic currents and fundamental harmonic current [%]	0.044	0.017	0.052	0.020	0.029	0.040	0.040	0.037	0.032	0.031	0.022	0.049	0.044

Elzee, 15/10/2015

SolarMax Produktions GmbH



Anton Spengler

