

# Declaration of Conformity

## Harmonic Currents

Inverter: **SolarMax 10MT2**

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

Relevant standard: EN 61000-3-2

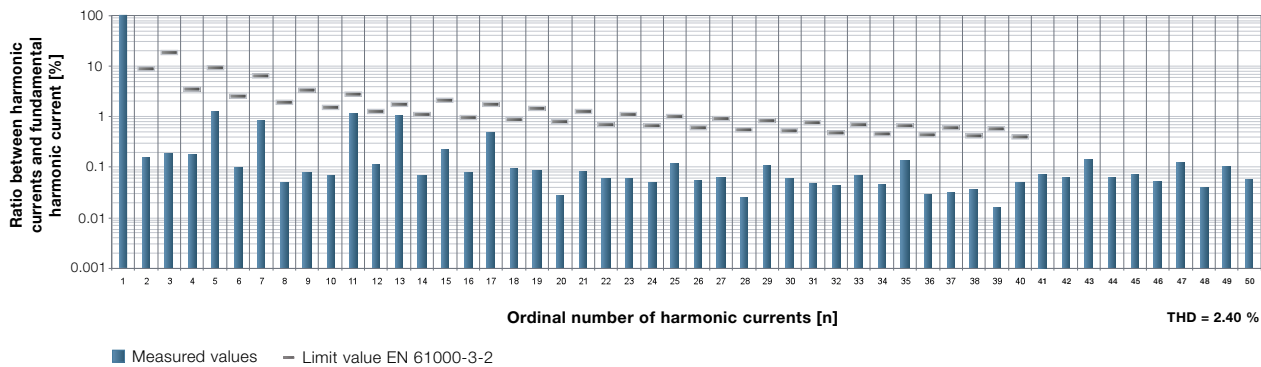
### Measured values:

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

Ordinal number [n]	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b>	<b>14</b>
$I_n/I_1$ [%]	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]	<b>15</b>	<b>16</b>	<b>17</b>	<b>18</b>	<b>19</b>	<b>20</b>	<b>21</b>	<b>22</b>	<b>23</b>	<b>24</b>	<b>25</b>	<b>26</b>	<b>27</b>
$I_n/I_1$ [%]	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]	<b>28</b>	<b>29</b>	<b>30</b>	<b>31</b>	<b>32</b>	<b>33</b>	<b>34</b>	<b>35</b>	<b>36</b>	<b>37</b>	<b>38</b>	<b>39</b>	<b>40</b>
$I_n/I_1$ [%]	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]	<b>41</b>	<b>42</b>	<b>43</b>	<b>44</b>	<b>45</b>	<b>46</b>	<b>47</b>	<b>48</b>	<b>49</b>	<b>50</b>			
$I_n/I_1$ [%]	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

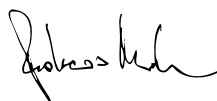
Frequency [Hz]	2100	2300	2500	2700	2900	3100	3300	3500	3700	3900	4100	4300	4500
Ratio between harmonic currents and fundamental harmonic current [%]	0.199	0.179	0.167	0.496	0.176	0.106	0.114	0.084	0.121	0.118	0.117	0.113	0.118
Frequency [Hz]	4700	4900	5100	5300	5500	5700	5900	6100	6300	6500	6700	6900	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

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Sputnik Engineering AG



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