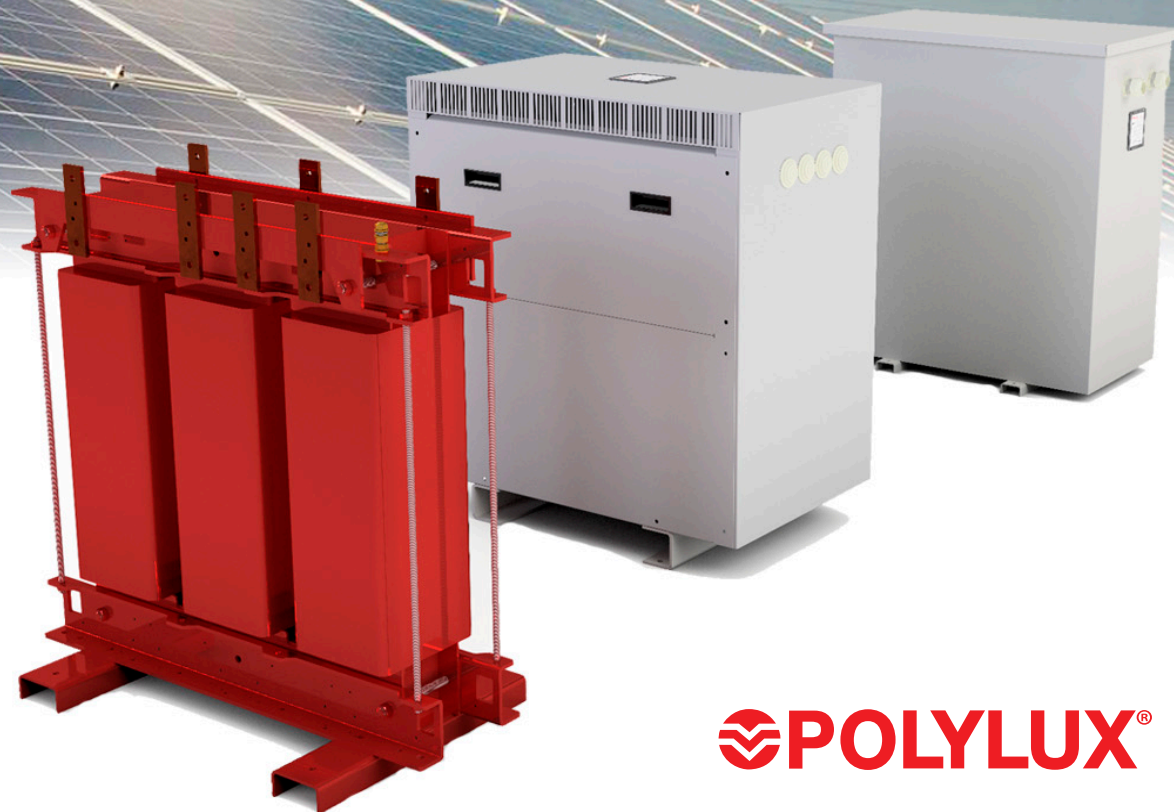




TRANSFORMERS AND AUTOTRANSFORMERS FOR SOLAR INSTALLATIONS

Security for your electrical projects



 **POLYLUX®**



Transformers and autotransformers for solar inverters



For generation and
self-consumption



Possibility of manufacturing
equipment with low losses to
optimize the profitability of the
installations



Reduced inrush for inverter
protection

In the GUIDE-BT-40 of LV generator installations, some general rules of application are established for all electric power generator installations. However, and due to the rise of photovoltaic solar installations and their penetration in MV and LV networks, we find how the GUIDE particularizes these facilities.

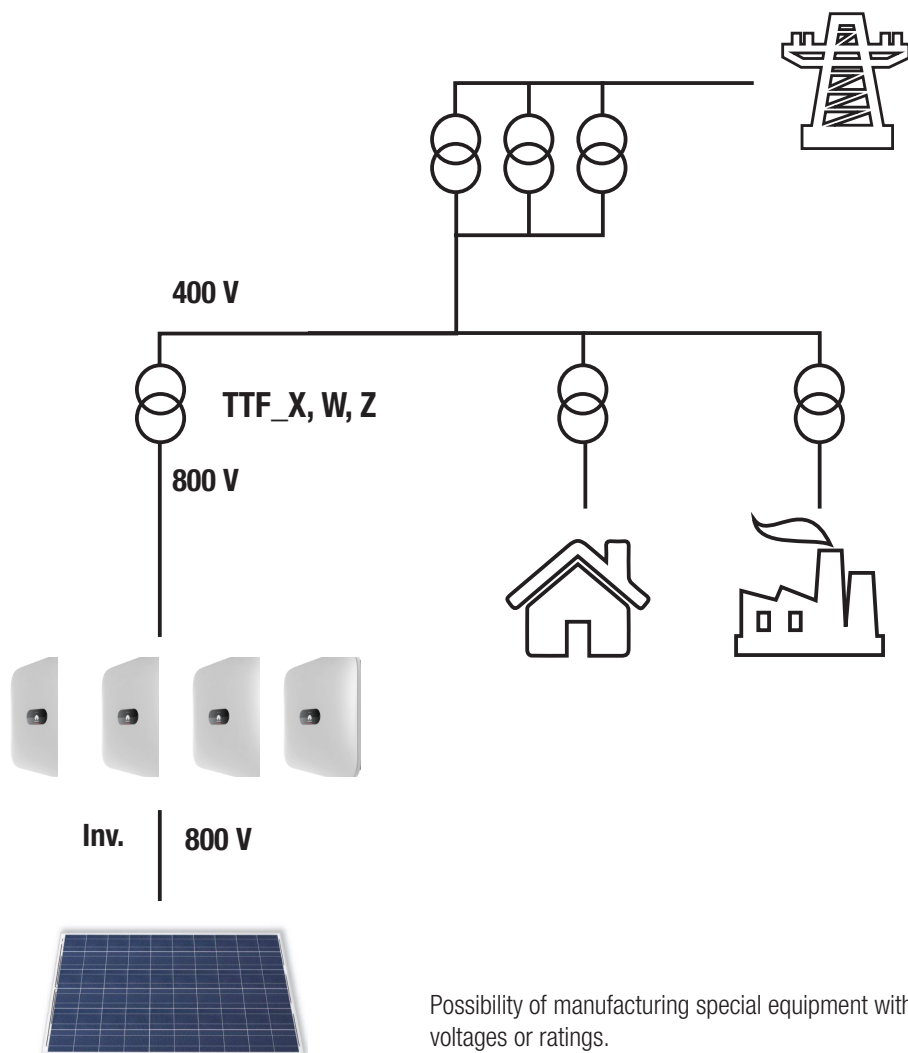
The current legislation established that there must be a galvanic separation between the network and the generating facilities, either by means of transformers or any other equivalent means, which fulfill the same functions.

Due to technological development, today a large part of the manufacturers of solar inverters certify that their equipment complies with the technical interpretation of the note about the equivalence of galvanic separation in the connection of LV generating facilities. For this reason, it is not absolutely necessary to install a transformer to ensure galvanic isolation. In this scenario, an autotransformer can be installed at the output of the inverters to adapt their output voltage to the user's working voltage.

At POLYLUX we offer a wide range of powers in both transformers and autotransformers with the aim of provide an application solution.

Transformers

for solar installations



Possibility of manufacturing special equipment with other voltages or ratings.

All the transformers have the following features in common:

Input current: 800V

Output current: 400V

Connection group: YNyn0

TTFX IP00

Rating kVA	Ref.	External dimensions mm			Fastening elements mm			Weight kg
		A	B	C	D	E	Ø	
0,63	TTFX0.63	150	94	178	66	125	6	5,9
1	TTFX1	180	94	203	76	150	6	9,5
2	TTFX2	240	145	253	125	200	9	20
2,5	TTFX2.5	300	124	303	115	250	9	23,9
3,15	TTFX3.15	300	134	303	125	250	9	27,4
4	TTFX4	300	154	303	145	250	9	36
5	TTFX5	300	164	303	155	250	9	40,4
6,3	TTFX6.3	360	144	353	122	300	11	55
8	TTFX8	360	164	353	142	300	11	67
10	TTFX10	420	170	419	136	350	11	78
12,5	TTFX12.5	420	190	419	156	350	11	94
16	TTFX16	480	250	480	144	400	11	105
20	TTFX20	480	270	480	164	400	11	125
25	TTFX25	480	290	480	184	400	11	145
31,5	TTFX31.5	480	310	480	204	400	11	162
40	TTFX40	670	280	615	170	426	13	191
50	TTFX50	670	300	615	190	426	13	233
63	TTFX63	670	320	690	210	426	13	277
80	TTFX80	670	340	690	230	426	13	320
100	TTFX100	670	360	690	250	426	13	368
125	TTFX125	785	550	880	460	472	17	462
160	TTFX160	785	550	880	460	472	17	560
200	TTFX200	785	550	880	460	472	17	660
250	TTFX250	1016	550	1080	460	690	17	808
315	TTFX315	1070	550	1220	460	690	17	1000
400	TTFX400	1070	550	1220	460	690	17	1092
500	TTFX500	1300	550	1350	460	800	17	1658
630	TTFX630	1300	600	1350	460	800	17	2000
800	TTFX800	1300	700	1350	600	800	17	2413
1000	TTFX1000	1300	800	1350	600	800	17	2993

Transformers

for solar installations

All the transformers have the following features in common:

Input current: 800V

Output current: 400V

Connection group: YNyn0

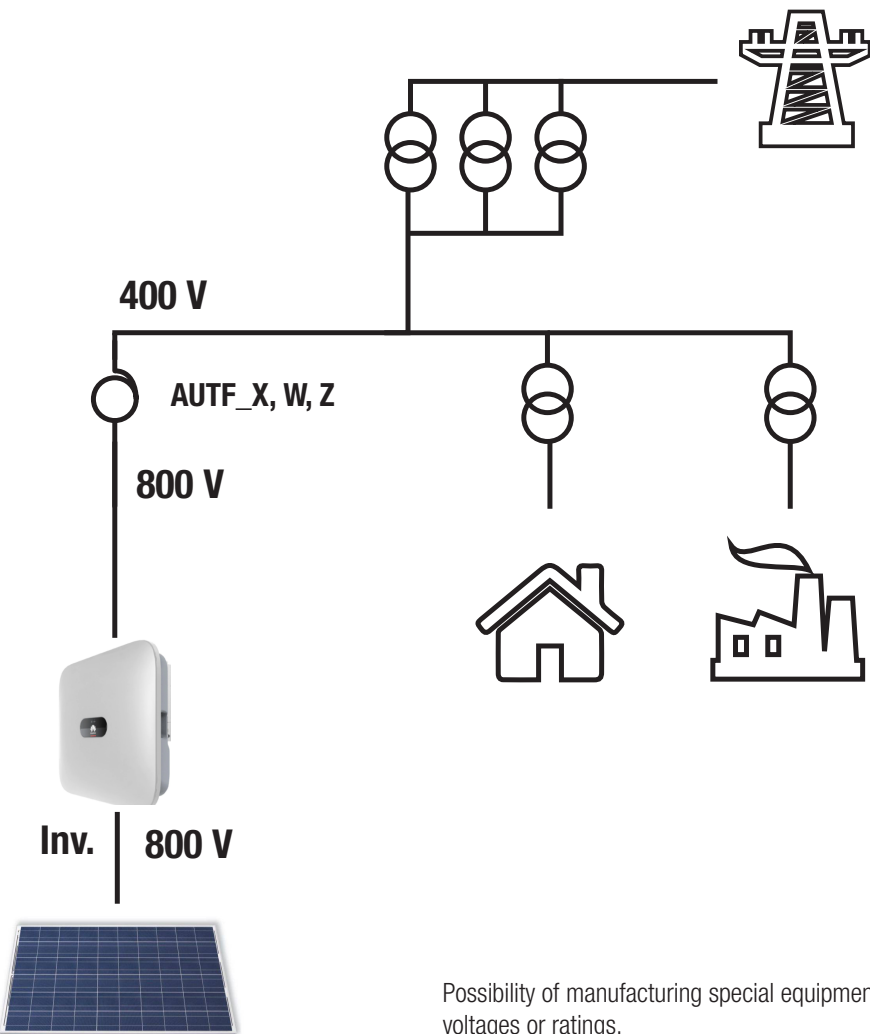
TTFW IP23 / TTFZ IP65



Rating kVA	Ref.	External dimensions mm			Fastening elements mm			Weight kg
		A	B	C	D	E	Ø	
0,63	TTFW0.63	194	175	220	165	100	6	7,6
1	TTFW1	240	190	250	180	150	6	13,2
2	TTFW2	315	230	315	205	200	6	24,8
2,5	TTFW2.5	385	260	384	245	250	6	28,8
3,15	TTFW3.15	385	260	384	245	250	6	32,8
4	TTFW4	385	260	384	245	250	6	40,8
5	TTFW5	385	260	384	245	250	6	45,2
6,3	TTFW6.3	458	340	500	300	300	12	61
8	TTFW8	458	340	500	300	300	12	73
10	TTFW10	528	418	644	375	345	12	89
12,5	TTFW12.5	528	418	644	375	345	12	106
16	TTFW16	597	415	710	375	345	12	117
20	TTFW20	597	415	710	375	345	12	137
25	TTFW25	597	415	710	375	345	12	157
31,5	TTFW31.5	597	415	710	375	345	12	174
40	TTFW40	795	550	970	500	415	12	237
50	TTFW50	795	550	970	500	415	12	279
63	TTFW63	795	550	970	500	415	12	323
80	TTFW80	795	550	970	500	415	12	366
100	TTFW100	795	550	970	500	415	12	414
125	TTFW125	970	670	1250	582	470	18	514
160	TTFW160	970	670	1250	582	470	18	612
200	TTFW200	970	670	1250	582	470	18	754
250	TTFW250	1200	760	1555	672	690	18	855
315	TTFW315	1200	760	1555	672	690	18	1093
400	TTFW400	1200	760	1555	672	690	18	1185
500	TTFW500	1530	1000	1880	900	800	20	1808
630	TTFW630	1530	1000	1880	900	800	20	2149
800	TTFW800	1530	1000	1880	900	800	20	2563
1000	TTFW1000	1530	1000	1880	900	800	20	3143

Rating kVA	Ref.	External dimensions mm			Fastening elements mm			Weight kg
		A	B	C	D	E	Ø	
0,63	TTFZ0.63	330	284	463	230	200	11	19,5
1	TTFZ1	330	284	463	230	200	11	24
2	TTFZ2	510	362	689	320	250	11	37
2,5	TTFZ2.5	510	362	689	320	250	11	40
3,15	TTFZ3.15	510	362	689	320	250	11	57
4	TTFZ4	510	362	689	320	250	11	61
5	TTFZ5	510	362	689	320	250	11	76
6,3	TTFZ6.3	510	362	689	320	250	11	87,5
8	TTFZ8	694	413	764	370	350	11	118
10	TTFZ10	694	413	764	370	350	11	134
12,5	TTFZ12.5	694	413	764	370	350	11	145
16	TTFZ16	694	413	764	370	350	11	165
20	TTFZ20	694	413	764	370	350	11	185
25	TTFZ25	694	413	764	370	350	11	202
31,5	TTFZ31.5	694	413	764	370	350	11	220
40	TTFZ40	890	560	1148	520	426	13	251
50	TTFZ50	890	560	1148	520	426	13	295
63	TTFZ63	890	560	1148	520	426	13	340
80	TTFZ80	890	560	1148	520	426	13	383
100	TTFZ100	890	560	1148	520	426	13	433
125	TTFZ125	972	740	1480	660	470	17	551
160	TTFZ160	972	740	1480	660	470	17	628
200	TTFZ200	972	740	1480	660	470	17	797
250	TTFZ250	1394	870	1762	810	690	17	1186
315	TTFZ315	1394	870	1762	810	690	17	1278
400	TTFZ400	1394	870	1762	810	690	17	1933
500	TTFZ500	1640	1226	1770	1110	800	17	2275
630	TTFZ630	1640	1226	1770	1110	800	17	2688
800	TTFZ800	1640	1226	1770	1110	800	17	3268
1000	TTFZ1000	1640	1226	1770	1110	800	17	3848

Autotransformers for solar installations



Possibility of manufacturing special equipment with other voltages or ratings.

All the autotransformers have the following features in common:
 Input current: 800V
 Output current: 400V
 Connection group: YNO
 AUTFX IP00

Rating kVA	Ref.	External dimensions mm			Fastening elements mm			Weight kg
		A	B	C	D	E	Ø	
1	AUTFX1	150	94	178	66	125	6	5,9
2	AUTFX2	180	94	203	76	150	6	9,5
3,15	AUTFX3.15	240	145	253	125	200	9	20
5	AUTFX5	300	124	303	115	250	9	23,9
8	AUTFX8	300	124	303	115	250	9	36
10	AUTFX10	300	164	303	155	250	9	40,4
12,5	AUTFX12.5	360	144	353	122	300	11	55
16	AUTFX16	360	164	353	142	300	11	67
20	AUTFX20	420	170	419	136	350	11	78
25	AUTFX25	420	190	419	156	350	11	94
31,5	AUTFX31.5	480	250	480	144	400	11	105
40	AUTFX40	480	270	480	164	400	11	125
50	AUTFX50	480	290	480	184	400	11	145
63	AUTFX63	480	310	480	204	400	11	162
80	AUTFX80	670	280	615	170	426	13	191
100	AUTFX100	670	300	615	190	426	13	233
125	AUTFX125	670	320	690	210	426	13	277
160	AUTFX160	670	340	690	230	426	13	320
200	AUTFX200	670	360	690	250	426	13	368
250	AUTFX250	785	550	880	460	472	17	462
315	AUTFX315	785	550	880	460	472	17	560
400	AUTFX400	785	550	880	460	472	17	660
500	AUTFX500	1016	550	1080	460	690	17	808
630	AUTFX630	1070	550	1220	460	690	17	1000
800	AUTFX800	1070	550	1220	460	690	17	1092
1000	AUTFX1000	1300	550	1350	460	800	17	1658

Autotransformers for solar installations

All the autotransformers have the following features in common:

Input current: 800V

Output current: 400V

Connection group: YN0

AUTFW IP23 / AUTFZ IP65



Rating kVA	Ref.	External dimensions mm			Fastening elements mm			Weight kg
		A	B	C	D	E	Ø	
1	AUTFW1	194	175	220	165	100	6	7,6
2	AUTFW2	240	190	250	180	150	6	13,2
3,15	AUTFW3.15	240	190	250	180	150	6	24,8
5	AUTFW5	315	230	315	205	200	6	28,8
8	AUTFW8	385	260	384	245	250	6	40,8
10	AUTFW10	385	260	384	245	250	6	45,2
12,5	AUTFW12.5	458	340	500	300	300	12	61
16	AUTFW16	458	340	500	300	300	12	73
20	AUTFW20	528	418	644	375	345	12	89
25	AUTFW25	528	418	644	375	345	12	106
31,5	AUTFW31.5	597	415	710	375	345	12	117
40	AUTFW40	597	415	710	375	345	12	137
50	AUTFW50	597	415	710	375	345	12	157
63	AUTFW63	597	415	710	375	345	12	174
80	AUTFW80	795	550	970	500	415	12	237
100	AUTFW100	795	550	970	500	415	12	279
125	AUTFW125	795	550	970	500	415	12	323
160	AUTFW160	795	550	970	500	415	12	366
200	AUTFW200	795	550	970	500	415	12	414
250	AUTFW250	970	670	1250	582	470	18	514
315	AUTFW315	970	670	1250	582	470	18	612
400	AUTFW400	970	670	1250	582	470	18	754
500	AUTFW500	1200	760	1555	672	690	18	855
630	AUTFW630	1200	760	1555	672	690	18	1093
800	AUTFW800	1200	760	1555	672	690	18	1185
1000	AUTFW1000	1530	1000	1880	900	800	20	1808

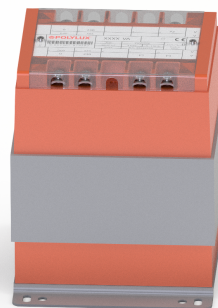
Rating kVA	Ref.	External dimensions mm			Fastening elements mm			Weight kg
		A	B	C	D	E	Ø	
1	AUTFZ1	330	284	463	230	200	11	19,5
2	AUTFZ2	330	284	463	230	200	11	24
3,15	AUTFZ3.15	510	362	689	320	250	11	37
5	AUTFZ5	510	362	689	320	250	11	40
8	AUTFZ8	510	362	689	320	250	11	61
10	AUTFZ10	510	362	689	320	250	11	76
12,5	AUTFZ12.5	510	362	689	320	250	11	87,5
16	AUTFZ16	694	413	764	370	350	11	118
20	AUTFZ20	694	413	764	370	350	11	134
25	AUTFZ25	694	413	764	370	350	11	145
31,5	AUTFZ31.5	694	413	764	370	350	11	165
40	AUTFZ40	694	413	764	370	350	11	185
50	AUTFZ50	694	413	764	370	350	11	202
63	AUTFZ63	694	413	764	370	350	11	220
80	AUTFZ80	890	560	1148	520	426	13	251
100	AUTFZ100	890	560	1148	520	426	13	295
125	AUTFZ125	890	560	1148	520	426	13	340
160	AUTFZ160	890	560	1148	520	426	13	383
200	AUTFZ200	890	560	1148	520	426	13	433
250	AUTFZ250	972	740	1480	660	470	17	551
315	AUTFZ315	972	740	1480	660	470	17	628
400	AUTFZ400	972	740	1480	660	470	17	797
500	AUTFZ500	1394	870	1762	810	690	17	1186
630	AUTFZ630	1394	870	1762	810	690	17	1278
800	AUTFZ800	1394	870	1762	810	690	17	1933
1000	AUTFZ1000	1640	1226	1770	1110	800	17	2275

Auxiliary equipment

Reactors for harmonic filtering



Single-phase neutral generating transformers



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