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Load test for generator, electric vehicle driver, motor controller, charging  
station etc.

## Isolation Transformer Filter

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**GUANGDONG SIKES Electric Co.,Ltd.**

**SIKES**  
18 YEARS OF  
SUCCESS



## Photovoltaic Isolation Transformer

### Descriptions

SG isolation transformer is used to solve the power grid problems which are caused by the photovoltaic power generation, such as harmonic, flickering, DC magnetic bias, and over voltage. Transformers are usually used between power grid and grid-connected inverter which can isolated inverter and sent the power back to grid.

### Main Characteristics

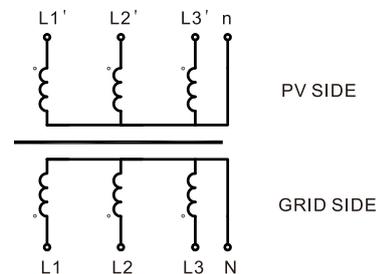
Nominal frequency	50Hz	Noise Level	≤60dB(50/60Hz, 1m away)
Primary	3× 380VAC		Input-output: 3000VAC
Secondary	3× 380VAC	Isolation testing voltage	Input-PE: 3000VAC Output-PE: 3000VAC
Connection Type	YN.yn0	Temperature Rise	See selection table
IP class	Ip65	Ambient temperature	-20...+45°C
Optional part	Cabinet	Storage temperature	-20...+30°C
Insulation class	H	Cooling	AN/AF
Insulation Resistance	≥100MΩ(DC500V)		

### Insulation classes

INSULATION CLASS	Maximum Continuous Operation Temperature Allowed	Maximum permissible mean temperature rise at rated operation	Maximum permissible average temperature rise at short circuit
E	120°C	75K	130K
B	130°C	80K	145K
F	155°C	100K	170K
H	180°C	135K	200K

### Connection

GRID SIDE: [ L1, L2,L3,N ]  
 PV SIDE: [ L1', L2',L3' ,n ]  
 Connection Group: YN.yn0



### STANDARDS

#### TYPE

- After IEC60038 the input voltage can change about ±10%. The transformer rating power must be suitable selected.
- JBT9649-19999
- Low voltage directive(2006/95/EC)
- EN 61558-2-4
- EMC-Directive(2004/108/EC)

#### SIGNS



## Selection Table

Type	Picture NO.	Capacitance (KVA)	Connection Group	Insulation Class 绝缘等级	Temp. Rise 温升	Weight (Kg)	Optional part Cabinet	
							IP65	Weight (Kg)
SKS-SG-5/0.38	A	5	YN.yn0	H	100K	54	ModelA1	19
SKS-SG-6/0.38	A	6	YN.yn0	H	100K	54	ModelA1	19
SKS-SG-7/0.38	A	7	YN.yn0	H	100K	58	ModelA1	19
SKS-SG-8/0.38	A	8	YN.yn0	H	100K	58	ModelA1	19
SKS-SG-9/0.38	A	9	YN.yn0	H	100K	68	ModelA2	41
SKS-SG-10/0.38	A	10	YN.yn0	H	100K	68	ModelA2	41
SKS-SG-12.5/0.38	B	12.5	YN.yn0	H	100K	80	ModelA3	54
SKS-SG-16/0.38	B	16	YN.yn0	H	100K	100	ModelA3	54
SKS-SG-20/0.38	C	20	YN.yn0	H	100K	120	ModelA4	65
SKS-SG-25/0.38	D	25	YN.yn0	H	100K	140	ModelA5	75
SKS-SG-30/0.38	D	30	YN.yn0	H	100K	160	ModelA5	75
SKS-SG-35/0.38	D	35	YN.yn0	H	100K	200	ModelA5	75
SKS-SG-40/0.38	D	40	YN.yn0	H	100K	200	ModelA5	75
SKS-SG-45/0.38	D	45	YN.yn0	H	100K	200	ModelA6	76
SKS-SG-50/0.38	D	50	YN.yn0	H	100K	240	ModelA7	76
SKS-SG-55/0.38	D	55	YN.yn0	H	100K	285	ModelA7	76
SKS-SG-60/0.38	D	60	YN.yn0	H	100K	310	ModelA7	85
SKS-SG-63/0.38	D	63	YN.yn0	H	100K	310	ModelA8	85
SKS-SG-75/0.38	E	75	YN.yn0	H	100K	350	ModelA9	88
SKS-SG-85/0.38	E	85	YN.yn0	H	100K	385	ModelA10	92
SKS-SG-90/0.38	E	90	YN.yn0	H	100K	390	ModelA11	100
SKS-SG-100/0.38	E	100	YN.yn0	H	100K	390	ModelA11	100
SKS-SG-110/0.38	E	110	YN.yn0	H	100K	415	ModelA11	100
SKS-SG-140/0.38	F	140	YN.yn0	H	100K	570	ModelA12	110
SKS-SG-150/0.38	F	150	YN.yn0	H	100K	570	ModelA12	110
SKS-SG-180/0.38	F	180	YN.yn0	H	100K	715	ModelA13	120
SKS-SG-200/0.38	F	200	YN.yn0	H	100K	715	ModelA14	130

NOTE: ① 5kva~20kva are Natural Air cooling;

② 25kva and above have a fan on each cabinet, When the temperature of transformer reaches 85 °C, the fan starts to work; When the temperature of transformer reaches 165 °C, High temperature alarm is activated.

## Mechanical data

All dimensions in mm; 1 inch = 25,4 mm

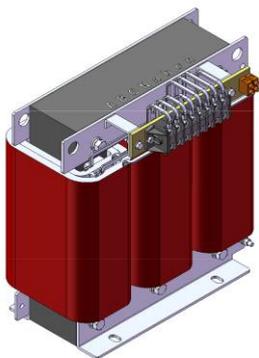
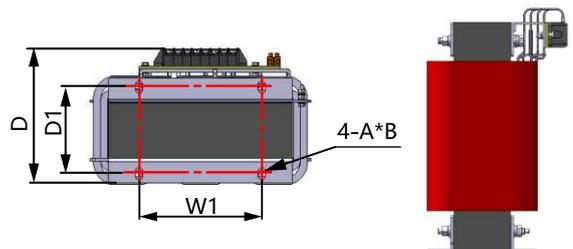
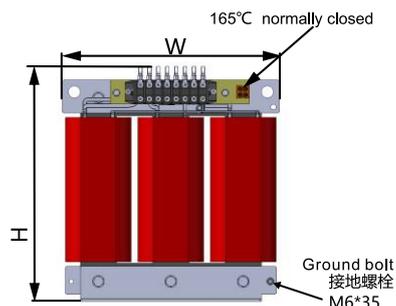


Fig.A



Capacitance	Dimension (±5mm)					
	D	D1	W	W1	H	A*B
5/6KVA	250	138	390	200	320	12*20
7/8KVA	250	140	390	200	320	12*20
9/10KVA	260	140	390	200	320	12*20

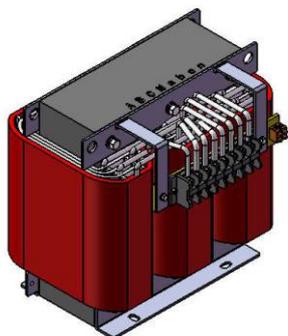
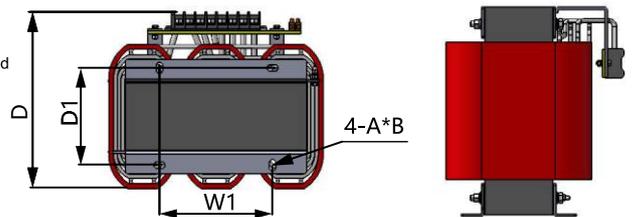
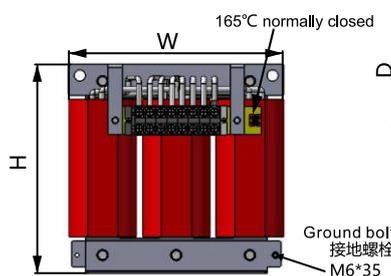


Fig.B



Capacitance	Dimension (±5mm)					
	D	D1	W	W1	H	A*B
12.5KVA	260	140	390	200	380	12*20
16KVA	285	163	390	200	390	12*20

## Mechanical data

All dimensions in mm; 1 inch = 25,4 mm

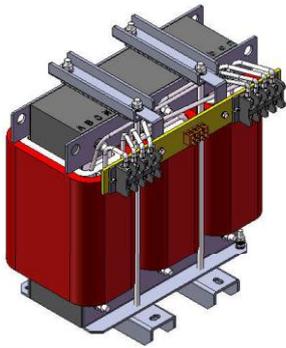
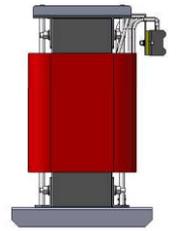
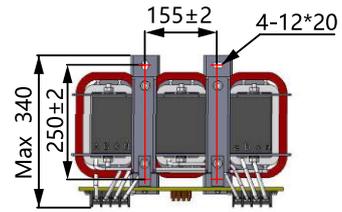
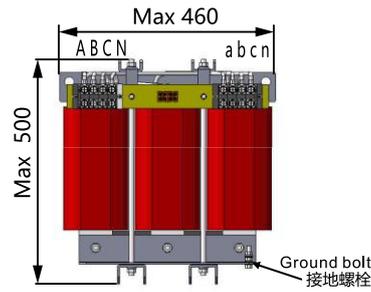


Fig.C



Capacitance	Dimension (±5mm)					
	D	D1	W	W1	H	A*B
20KVA	340	250	460	155	500	12*20

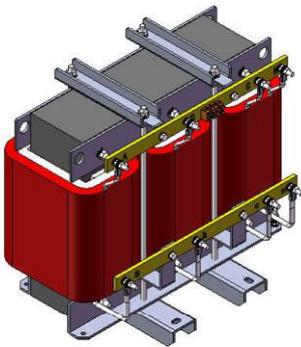
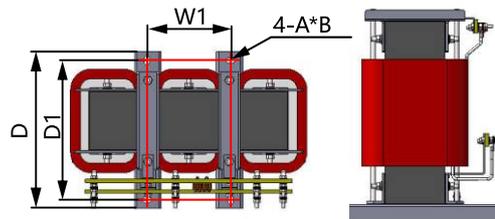
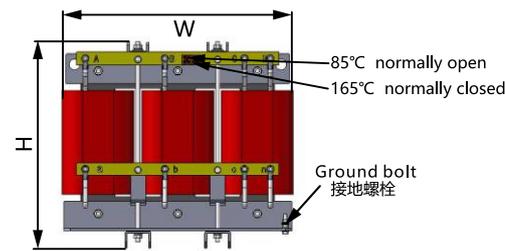


Fig.D



Capacitance	Dimension (±5mm)					
	D	D1	W	W1	H	A*B
25KVA	360	300	460	155	480	12*20
30KVA	380	300	460	155	490	12*20
35KVA	380	300	460	155	490	12*20
40KVA	390	300	460	155	560	12*20
45KVA	400	320	570	190	510	12*20
50KVA	400	320	570	190	530	12*20
55KVA	410	320	570	190	550	12*20
60KVA	430	320	570	190	600	12*20
63KVA	430	320	570	190	600	12*20

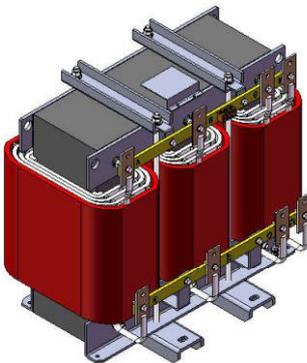
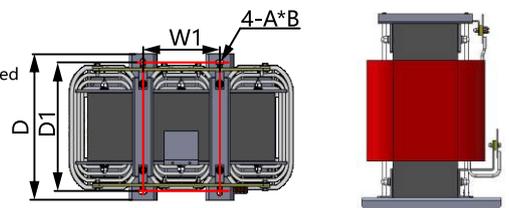
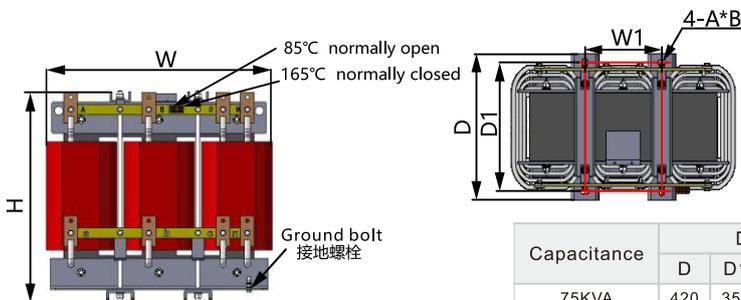


Fig.E



Capacitance	Dimension (±5mm)					
	D	D1	W	W1	H	A*B
75KVA	420	350	650	215	600	12*20
85KVA	420	350	650	215	650	12*20
90/100KVA	460	350	650	215	650	15*25
110KVA	460	350	650	215	680	15*25

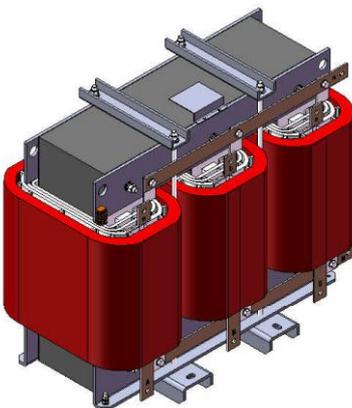
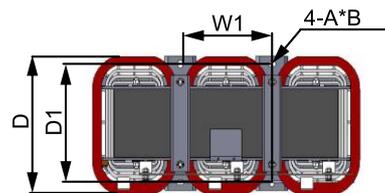
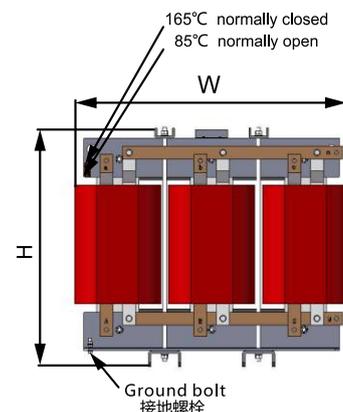
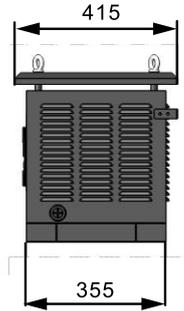
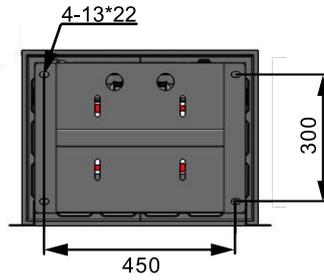
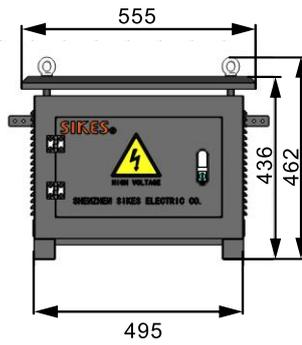


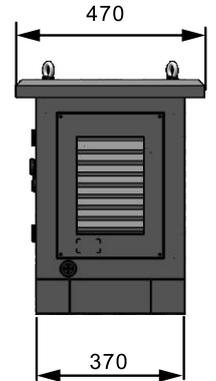
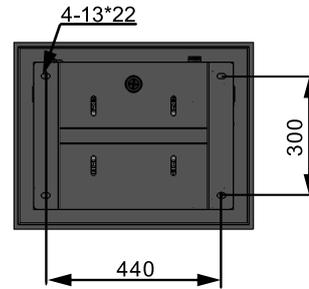
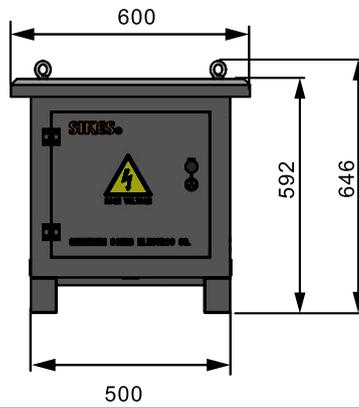
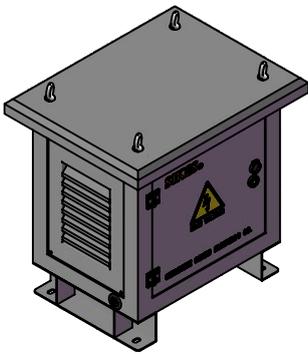
Fig.F



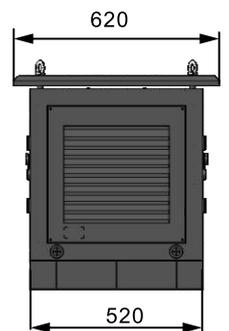
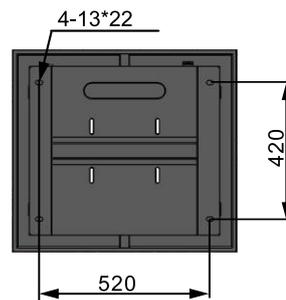
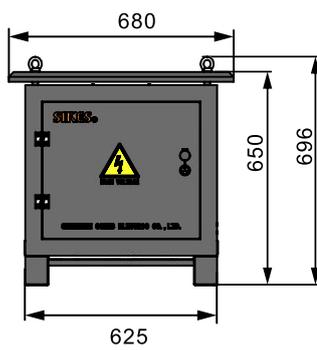
Capacitance	Dimension (±5mm)					
	D	D1	W	W1	H	A*B
140/150KVA	460	380	770	260	720	15*25
180KVA	480	420	830	280	760	15*25
200KVA	460	400	860	290	800	15*25



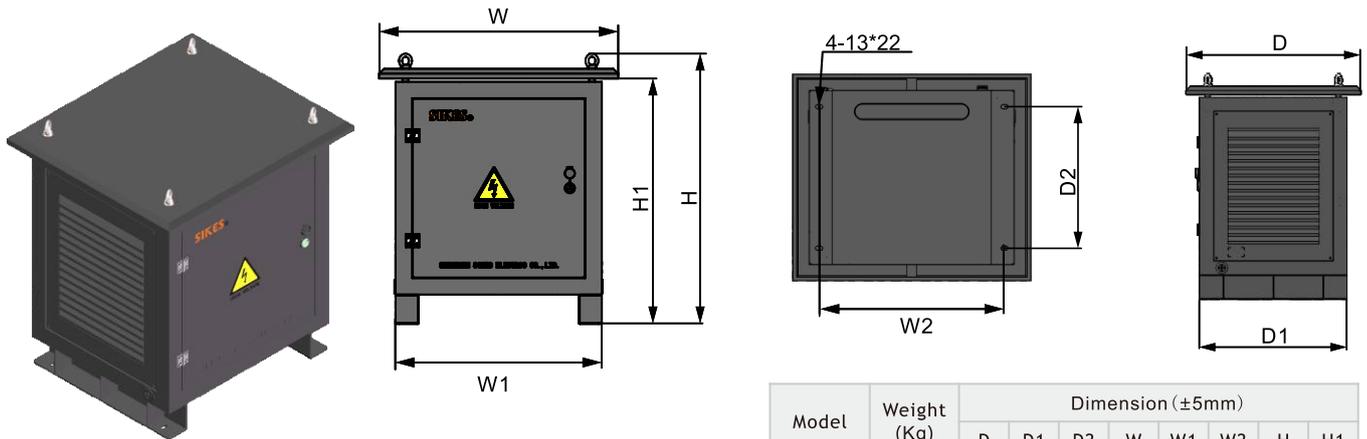
**Model A1** White painting



**Model A2** Gray painting



**Model A3** Gray painting



Gray painting

Model A4,A5,A6,A7,A8,A9,A10,A11,A12,A13,A14

Model	Weight (Kg)	Dimension (±5mm)							
		D	D1	D2	W	W1	W2	H	H1
Model A4	65	635	535	435	725	625	565	826	780
Model A5	76	685	585	485	850	750	690	816	770
Model A6	75	685	585	485	750	650	590	866	820
Model A7	76	695	595	495	855	755	695	856	810
Model A8	85	715	615	515	855	755	695	906	860
Model A9	88	705	605	505	935	835	775	925	860
Model A10	92	705	605	505	935	835	775	975	910
Model A11	100	745	645	545	935	835	775	1005	940
Model A12	110	745	645	545	1055	955	895	1045	980
Model A13	120	765	665	565	1115	1015	955	1115	1040
Model A14	130	765	665	565	1145	1045	985	1155	1080