

QDTB® TRANSFORMER

SG13

Dry-Type Transformers

PRODUCT DATASHEET

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SG13 — Series Overview

The SG13 series features open-type construction with Level 3 energy efficiency, providing excellent ventilation and cooling for demanding applications. Rated 10–5000 kVA, 0.48–35 kV primary and 0.208–0.48 kV secondary, Class F insulation with 65 K temperature rise, IP00–IP31 enclosure (IP42–IP66 available on request). Suitable for indoor substations, data centers, commercial buildings, industrial plants, and solar/wind farms.

Key Features

- Level 3 energy efficiency rating
- Open-type design for superior cooling
- Easy maintenance access
- Suitable for well-ventilated installations

Typical Applications

- Industrial plants
- Power stations
- Large commercial facilities
- Outdoor installations with protection

Model Number Breakdown

S — Three-phase power transformer

G — Open-type construction, non-encapsulated

13 — Performance level designation, corresponds to Level 3 energy efficiency standard

Model Specifications

162 model(s) in the SG13 series. Weight and dimensions are typical reference values, subject to confirmation.

Model	Rated Capacity	HV Voltage	LV Voltage	Connection	Cooling	No-load Loss (W)	Load Loss (W)	No-load Current (%)	Impedance (%)	Noise (dB)	Insulation Class	Standard	Weight (kg) †	Dimensions (L×W×H) †
SG13-10/10/0.4	10	10 kV	0.4 kV	Dyn11 (IEC)	AN/AF	680	1700	1.9	4	≤36 dB(A)	F (155°C)	IEC 60076	300 kg	700×500×800 mm
SG13-10/6/0.4	10	6 kV	0.4 kV	Dyn11 (IEC)	AN/AF	680	1700	1.9	4	≤36 dB(A)	F (155°C)	IEC 60076	300 kg	700×500×800 mm
SG13-10/35/0.4	10	35 kV	0.4 kV	Dyn11 (IEC)	AN/AF	680	1700	1.9	4	≤36 dB(A)	F (155°C)	IEC 60076	300 kg	700×500×800 mm
SG13-10/10/0.48	10	10 kV	0.48 kV	Delta-Wye (IEEE Std)	AN/AF	680	1700	1.9	4	≤36 dB(A)	F (155°C)	IEEE C57 / ANSI C84.1	300 kg	700×500×800 mm
SG13-10/10/0.22	10	10 kV	0.22 kV	Dyn11 (IEC)	AN/AF	680	1700	1.9	4	≤36 dB(A)	F (155°C)	IEC 60076	300 kg	700×500×800 mm
SG13-10/0.48/0.208	10	0.48 kV	0.208 kV	Delta-Wye (IEEE Std)	AN/AF	680	1700	1.9	4	≤36 dB(A)	F (155°C)	IEEE C57 / ANSI C84.1	300 kg	700×500×800 mm
SG13-15/10/0.4	15	10 kV	0.4 kV	Dyn11 (IEC)	AN/AF	910	2275	1.6	4	≤36 dB(A)	F (155°C)	IEC 60076	340 kg	740×525×850 mm
SG13-15/6/0.4	15	6 kV	0.4 kV	Dyn11 (IEC)	AN/AF	910	2275	1.6	4	≤36 dB(A)	F (155°C)	IEC 60076	340 kg	740×525×850 mm
SG13-15/35/0.4	15	35 kV	0.4 kV	Dyn11 (IEC)	AN/AF	910	2275	1.6	4	≤36 dB(A)	F (155°C)	IEC 60076	340 kg	740×525×850 mm
SG13-15/10/0.48	15	10 kV	0.48 kV	Delta-Wye (IEEE Std)	AN/AF	910	2275	1.6	4	≤36 dB(A)	F (155°C)	IEEE C57 / ANSI C84.1	340 kg	740×525×850 mm
SG13-15/10/0.22	15	10 kV	0.22 kV	Dyn11 (IEC)	AN/AF	910	2275	1.6	4	≤36 dB(A)	F (155°C)	IEC 60076	340 kg	740×525×850 mm
SG13-15/0.48/0.208	15	0.48 kV	0.208 kV	Delta-Wye (IEEE Std)	AN/AF	910	2275	1.6	4	≤36 dB(A)	F (155°C)	IEEE C57 / ANSI C84.1	340 kg	740×525×850 mm
SG13-20/10/0.4	20	10 kV	0.4 kV	Dyn11 (IEC)	AN/AF	1120	2800	1.5	4	≤37 dB(A)	F (155°C)	IEC 60076	380 kg	780×550×900 mm
SG13-20/6/0.4	20	6 kV	0.4 kV	Dyn11 (IEC)	AN/AF	1120	2800	1.5	4	≤37 dB(A)	F (155°C)	IEC 60076	380 kg	780×550×900 mm
SG13-20/35/0.4	20	35 kV	0.4 kV	Dyn11 (IEC)	AN/AF	1120	2800	1.5	4	≤37 dB(A)	F (155°C)	IEC 60076	380 kg	780×550×900 mm
SG13-20/10/0.48	20	10 kV	0.48 kV	Delta-Wye (IEEE Std)	AN/AF	1120	2800	1.5	4	≤37 dB(A)	F (155°C)	IEEE C57 / ANSI C84.1	380 kg	780×550×900 mm

Model	Rated Capacity	HV Voltage	LV Voltage	Connection	Cooling	No-load Loss (W)	Load Loss (W)	No-load Current (%)	Impedance (%)	Noise (dB)	Insulation Class	Standard	Weight (kg) †	Dimensions (L×W×H) †
SG13-20/10/0.22	20	10 kV	0.22 kV	Dyn11 (IEC)	AN/AF	1120	2800	1.5	4	≤37 dB(A)	F (155°C)	IEC 60076	380 kg	780×550×900 mm
SG13-20/0.48/0.208	20	0.48 kV	0.208 kV	Delta-Wye (IEEE Std)	AN/AF	1120	2800	1.5	4	≤37 dB(A)	F (155°C)	IEEE C57 / ANSI C84.1	380 kg	780×550×900 mm
SG13-25/10/0.4	25	10 kV	0.4 kV	Dyn11 (IEC)	AN/AF	1320	3300	1.4	4	≤37 dB(A)	F (155°C)	IEC 60076	420 kg	830×585×940 mm
SG13-25/6/0.4	25	6 kV	0.4 kV	Dyn11 (IEC)	AN/AF	1320	3300	1.4	4	≤37 dB(A)	F (155°C)	IEC 60076	420 kg	830×585×940 mm
SG13-25/35/0.4	25	35 kV	0.4 kV	Dyn11 (IEC)	AN/AF	1320	3300	1.4	4	≤37 dB(A)	F (155°C)	IEC 60076	420 kg	830×585×940 mm
SG13-25/10/0.48	25	10 kV	0.48 kV	Delta-Wye (IEEE Std)	AN/AF	1320	3300	1.4	4	≤37 dB(A)	F (155°C)	IEEE C57 / ANSI C84.1	420 kg	830×585×940 mm
SG13-25/10/0.22	25	10 kV	0.22 kV	Dyn11 (IEC)	AN/AF	1320	3300	1.4	4	≤37 dB(A)	F (155°C)	IEC 60076	420 kg	830×585×940 mm
SG13-25/0.48/0.208	25	0.48 kV	0.208 kV	Delta-Wye (IEEE Std)	AN/AF	1320	3300	1.4	4	≤37 dB(A)	F (155°C)	IEEE C57 / ANSI C84.1	420 kg	830×585×940 mm
SG13-30/10/0.4	30	10 kV	0.4 kV	Dyn11 (IEC)	AN/AF	1500	3750	1.3	4	≤37 dB(A)	F (155°C)	IEC 60076	460 kg	880×620×980 mm
SG13-30/6/0.4	30	6 kV	0.4 kV	Dyn11 (IEC)	AN/AF	1500	3750	1.3	4	≤37 dB(A)	F (155°C)	IEC 60076	460 kg	880×620×980 mm
SG13-30/35/0.4	30	35 kV	0.4 kV	Dyn11 (IEC)	AN/AF	1500	3750	1.3	4	≤37 dB(A)	F (155°C)	IEC 60076	460 kg	880×620×980 mm
SG13-30/10/0.48	30	10 kV	0.48 kV	Delta-Wye (IEEE Std)	AN/AF	1500	3750	1.3	4	≤37 dB(A)	F (155°C)	IEEE C57 / ANSI C84.1	460 kg	880×620×980 mm
SG13-30/10/0.22	30	10 kV	0.22 kV	Dyn11 (IEC)	AN/AF	1500	3750	1.3	4	≤37 dB(A)	F (155°C)	IEC 60076	460 kg	880×620×980 mm
SG13-30/0.48/0.208	30	0.48 kV	0.208 kV	Delta-Wye (IEEE Std)	AN/AF	1500	3750	1.3	4	≤37 dB(A)	F (155°C)	IEEE C57 / ANSI C84.1	460 kg	880×620×980 mm
SG13-40/10/0.4	40	10 kV	0.4 kV	Dyn11 (IEC)	AN/AF	1850	4625	1.2	4	≤38 dB(A)	F (155°C)	IEC 60076	510 kg	940×690×1040 mm
SG13-40/6/0.4	40	6 kV	0.4 kV	Dyn11 (IEC)	AN/AF	1850	4625	1.2	4	≤38 dB(A)	F (155°C)	IEC 60076	510 kg	940×690×1040 mm
SG13-40/35/0.4	40	35 kV	0.4 kV	Dyn11 (IEC)	AN/AF	1850	4625	1.2	4	≤38 dB(A)	F (155°C)	IEC 60076	510 kg	940×690×1040 mm

Model	Rated Capacity	HV Voltage	LV Voltage	Connection	Cooling	No-load Loss (W)	Load Loss (W)	No-load Current (%)	Impedance (%)	Noise (dB)	Insulation Class	Standard	Weight (kg) †	Dimensions (L×W×H) †
SG13-40/10/0.48	40	10 kV	0.48 kV	Delta-Wye (IEEE Std)	AN/AF	1850	4625	1.2	4	≤38 dB(A)	F (155°C)	IEEE C57 / ANSI C84.1	510 kg	940×690×1040 mm
SG13-40/10/0.22	40	10 kV	0.22 kV	Dyn11 (IEC)	AN/AF	1850	4625	1.2	4	≤38 dB(A)	F (155°C)	IEC 60076	510 kg	940×690×1040 mm
SG13-40/0.48/0.208	40	0.48 kV	0.208 kV	Delta-Wye (IEEE Std)	AN/AF	1850	4625	1.2	4	≤38 dB(A)	F (155°C)	IEEE C57 / ANSI C84.1	510 kg	940×690×1040 mm
SG13-50/10/0.4	50	10 kV	0.4 kV	Dyn11 (IEC)	AN/AF	2170	5425	1.1	4	≤38 dB(A)	F (155°C)	IEC 60076	560 kg	1000×760×1100 mm
SG13-50/6/0.4	50	6 kV	0.4 kV	Dyn11 (IEC)	AN/AF	2170	5425	1.1	4	≤38 dB(A)	F (155°C)	IEC 60076	560 kg	1000×760×1100 mm
SG13-50/35/0.4	50	35 kV	0.4 kV	Dyn11 (IEC)	AN/AF	2170	5425	1.1	4	≤38 dB(A)	F (155°C)	IEC 60076	560 kg	1000×760×1100 mm
SG13-50/10/0.48	50	10 kV	0.48 kV	Delta-Wye (IEEE Std)	AN/AF	2170	5425	1.1	4	≤38 dB(A)	F (155°C)	IEEE C57 / ANSI C84.1	560 kg	1000×760×1100 mm
SG13-50/10/0.22	50	10 kV	0.22 kV	Dyn11 (IEC)	AN/AF	2170	5425	1.1	4	≤38 dB(A)	F (155°C)	IEC 60076	560 kg	1000×760×1100 mm
SG13-50/0.48/0.208	50	0.48 kV	0.208 kV	Delta-Wye (IEEE Std)	AN/AF	2170	5425	1.1	4	≤38 dB(A)	F (155°C)	IEEE C57 / ANSI C84.1	560 kg	1000×760×1100 mm
SG13-63/10/0.4	63	10 kV	0.4 kV	Dyn11 (IEC)	AN/AF	2570	6425	1	4	≤39 dB(A)	F (155°C)	IEC 60076	620 kg	1020×775×1135 mm
SG13-63/6/0.4	63	6 kV	0.4 kV	Dyn11 (IEC)	AN/AF	2570	6425	1	4	≤39 dB(A)	F (155°C)	IEC 60076	620 kg	1020×775×1135 mm
SG13-63/35/0.4	63	35 kV	0.4 kV	Dyn11 (IEC)	AN/AF	2570	6425	1	4	≤39 dB(A)	F (155°C)	IEC 60076	620 kg	1020×775×1135 mm
SG13-63/10/0.48	63	10 kV	0.48 kV	Delta-Wye (IEEE Std)	AN/AF	2570	6425	1	4	≤39 dB(A)	F (155°C)	IEEE C57 / ANSI C84.1	620 kg	1020×775×1135 mm
SG13-63/10/0.22	63	10 kV	0.22 kV	Dyn11 (IEC)	AN/AF	2570	6425	1	4	≤39 dB(A)	F (155°C)	IEC 60076	620 kg	1020×775×1135 mm
SG13-63/0.48/0.208	63	0.48 kV	0.208 kV	Delta-Wye (IEEE Std)	AN/AF	2570	6425	1	4	≤39 dB(A)	F (155°C)	IEEE C57 / ANSI C84.1	620 kg	1020×775×1135 mm
SG13-80/10/0.4	80	10 kV	0.4 kV	Dyn11 (IEC)	AN/AF	3050	7625	0.9	4	≤40 dB(A)	F (155°C)	IEC 60076	700 kg	1050×800×1180 mm
SG13-80/6/0.4	80	6 kV	0.4 kV	Dyn11 (IEC)	AN/AF	3050	7625	0.9	4	≤40 dB(A)	F (155°C)	IEC 60076	700 kg	1050×800×1180 mm

Model	Rated Capacity	HV Voltage	LV Voltage	Connection	Cooling	No-load Loss (W)	Load Loss (W)	No-load Current (%)	Impedance (%)	Noise (dB)	Insulation Class	Standard	Weight (kg) †	Dimensions (L×W×H) †
SG13-80/35/0.4	80	35 kV	0.4 kV	Dyn11 (IEC)	AN/AF	3050	7625	0.9	4	≤40 dB(A)	F (155°C)	IEC 60076	700 kg	1050×800×1180 mm
SG13-80/10/0.48	80	10 kV	0.48 kV	Delta-Wye (IEEE Std)	AN/AF	3050	7625	0.9	4	≤40 dB(A)	F (155°C)	IEEE C57 / ANSI C84.1	700 kg	1050×800×1180 mm
SG13-80/10/0.22	80	10 kV	0.22 kV	Dyn11 (IEC)	AN/AF	3050	7625	0.9	4	≤40 dB(A)	F (155°C)	IEC 60076	700 kg	1050×800×1180 mm
SG13-80/0.48/0.208	80	0.48 kV	0.208 kV	Delta-Wye (IEEE Std)	AN/AF	3050	7625	0.9	4	≤40 dB(A)	F (155°C)	IEEE C57 / ANSI C84.1	700 kg	1050×800×1180 mm
SG13-100/10/0.4	100	10 kV	0.4 kV	Dyn11 (IEC)	AN/AF	3580	8950	0.9	4	≤40 dB(A)	F (155°C)	IEC 60076	800 kg	1100×800×1250 mm
SG13-100/6/0.4	100	6 kV	0.4 kV	Dyn11 (IEC)	AN/AF	3580	8950	0.9	4	≤40 dB(A)	F (155°C)	IEC 60076	800 kg	1100×800×1250 mm
SG13-100/35/0.4	100	35 kV	0.4 kV	Dyn11 (IEC)	AN/AF	3580	8950	0.9	4	≤40 dB(A)	F (155°C)	IEC 60076	800 kg	1100×800×1250 mm
SG13-100/10/0.48	100	10 kV	0.48 kV	Delta-Wye (IEEE Std)	AN/AF	3580	8950	0.9	4	≤40 dB(A)	F (155°C)	IEEE C57 / ANSI C84.1	800 kg	1100×800×1250 mm
SG13-100/10/0.22	100	10 kV	0.22 kV	Dyn11 (IEC)	AN/AF	3580	8950	0.9	4	≤40 dB(A)	F (155°C)	IEC 60076	800 kg	1100×800×1250 mm
SG13-100/0.48/0.208	100	0.48 kV	0.208 kV	Delta-Wye (IEEE Std)	AN/AF	3580	8950	0.9	4	≤40 dB(A)	F (155°C)	IEEE C57 / ANSI C84.1	800 kg	1100×800×1250 mm
SG13-125/10/0.4	125	10 kV	0.4 kV	Dyn11 (IEC)	AN/AF	4200	10500	0.8	4.5	≤41 dB(A)	F (155°C)	IEC 60076	900 kg	1150×820×1300 mm
SG13-125/6/0.4	125	6 kV	0.4 kV	Dyn11 (IEC)	AN/AF	4200	10500	0.8	4.5	≤41 dB(A)	F (155°C)	IEC 60076	900 kg	1150×820×1300 mm
SG13-125/35/0.4	125	35 kV	0.4 kV	Dyn11 (IEC)	AN/AF	4200	10500	0.8	4.5	≤41 dB(A)	F (155°C)	IEC 60076	900 kg	1150×820×1300 mm
SG13-125/10/0.48	125	10 kV	0.48 kV	Delta-Wye (IEEE Std)	AN/AF	4200	10500	0.8	4.5	≤41 dB(A)	F (155°C)	IEEE C57 / ANSI C84.1	900 kg	1150×820×1300 mm
SG13-125/10/0.22	125	10 kV	0.22 kV	Dyn11 (IEC)	AN/AF	4200	10500	0.8	4.5	≤41 dB(A)	F (155°C)	IEC 60076	900 kg	1150×820×1300 mm
SG13-125/0.48/0.208	125	0.48 kV	0.208 kV	Delta-Wye (IEEE Std)	AN/AF	4200	10500	0.8	4.5	≤41 dB(A)	F (155°C)	IEEE C57 / ANSI C84.1	900 kg	1150×820×1300 mm
SG13-160/10/0.4	160	10 kV	0.4 kV	Dyn11 (IEC)	AN/AF	5020	12550	0.8	4.5	≤41 dB(A)	F (155°C)	IEC 60076	1050 kg	1200×850×1350 mm

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SG13-160/6/0.4	160	6 kV	0.4 kV	Dyn11 (IEC)	AN/AF	5020	12550	0.8	4.5	≤41 dB(A)	F (155°C)	IEC 60076	1050 kg	1200×850×1350 mm
SG13-160/35/0.4	160	35 kV	0.4 kV	Dyn11 (IEC)	AN/AF	5020	12550	0.8	4.5	≤41 dB(A)	F (155°C)	IEC 60076	1050 kg	1200×850×1350 mm
SG13-160/10/0.48	160	10 kV	0.48 kV	Delta-Wye (IEEE Std)	AN/AF	5020	12550	0.8	4.5	≤41 dB(A)	F (155°C)	IEEE C57 / ANSI C84.1	1050 kg	1200×850×1350 mm
SG13-160/10/0.22	160	10 kV	0.22 kV	Dyn11 (IEC)	AN/AF	5020	12550	0.8	4.5	≤41 dB(A)	F (155°C)	IEC 60076	1050 kg	1200×850×1350 mm
SG13-160/0.48/0.208	160	0.48 kV	0.208 kV	Delta-Wye (IEEE Std)	AN/AF	5020	12550	0.8	4.5	≤41 dB(A)	F (155°C)	IEEE C57 / ANSI C84.1	1050 kg	1200×850×1350 mm
SG13-200/10/0.4	200	10 kV	0.4 kV	Dyn11 (IEC)	AN/AF	5900	14750	0.7	4.5	≤42 dB(A)	F (155°C)	IEC 60076	1200 kg	1250×880×1400 mm
SG13-200/6/0.4	200	6 kV	0.4 kV	Dyn11 (IEC)	AN/AF	5900	14750	0.7	4.5	≤42 dB(A)	F (155°C)	IEC 60076	1200 kg	1250×880×1400 mm
SG13-200/35/0.4	200	35 kV	0.4 kV	Dyn11 (IEC)	AN/AF	5900	14750	0.7	4.5	≤42 dB(A)	F (155°C)	IEC 60076	1200 kg	1250×880×1400 mm
SG13-200/10/0.48	200	10 kV	0.48 kV	Delta-Wye (IEEE Std)	AN/AF	5900	14750	0.7	4.5	≤42 dB(A)	F (155°C)	IEEE C57 / ANSI C84.1	1200 kg	1250×880×1400 mm
SG13-200/10/0.22	200	10 kV	0.22 kV	Dyn11 (IEC)	AN/AF	5900	14750	0.7	4.5	≤42 dB(A)	F (155°C)	IEC 60076	1200 kg	1250×880×1400 mm
SG13-200/0.48/0.208	200	0.48 kV	0.208 kV	Delta-Wye (IEEE Std)	AN/AF	5900	14750	0.7	4.5	≤42 dB(A)	F (155°C)	IEEE C57 / ANSI C84.1	1200 kg	1250×880×1400 mm
SG13-250/10/0.4	250	10 kV	0.4 kV	Dyn11 (IEC)	AN/AF	6930	17325	0.7	4.5	≤43 dB(A)	F (155°C)	IEC 60076	1350 kg	1300×900×1450 mm
SG13-250/6/0.4	250	6 kV	0.4 kV	Dyn11 (IEC)	AN/AF	6930	17325	0.7	4.5	≤43 dB(A)	F (155°C)	IEC 60076	1350 kg	1300×900×1450 mm
SG13-250/35/0.4	250	35 kV	0.4 kV	Dyn11 (IEC)	AN/AF	6930	17325	0.7	4.5	≤43 dB(A)	F (155°C)	IEC 60076	1350 kg	1300×900×1450 mm
SG13-250/10/0.48	250	10 kV	0.48 kV	Delta-Wye (IEEE Std)	AN/AF	6930	17325	0.7	4.5	≤43 dB(A)	F (155°C)	IEEE C57 / ANSI C84.1	1350 kg	1300×900×1450 mm
SG13-250/10/0.22	250	10 kV	0.22 kV	Dyn11 (IEC)	AN/AF	6930	17325	0.7	4.5	≤43 dB(A)	F (155°C)	IEC 60076	1350 kg	1300×900×1450 mm
SG13-250/0.48/0.208	250	0.48 kV	0.208 kV	Delta-Wye (IEEE Std)	AN/AF	6930	17325	0.7	4.5	≤43 dB(A)	F (155°C)	IEEE C57 / ANSI C84.1	1350 kg	1300×900×1450 mm

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SG13-315/10/0.4	315	10 kV	0.4 kV	Dyn11 (IEC)	AN/AF	8180	20450	0.6	4.5	≤43 dB(A)	F (155°C)	IEC 60076	1550 kg	1350×950×1500 mm
SG13-315/6/0.4	315	6 kV	0.4 kV	Dyn11 (IEC)	AN/AF	8180	20450	0.6	4.5	≤43 dB(A)	F (155°C)	IEC 60076	1550 kg	1350×950×1500 mm
SG13-315/35/0.4	315	35 kV	0.4 kV	Dyn11 (IEC)	AN/AF	8180	20450	0.6	4.5	≤43 dB(A)	F (155°C)	IEC 60076	1550 kg	1350×950×1500 mm
SG13-315/10/0.48	315	10 kV	0.48 kV	Delta-Wye (IEEE Std)	AN/AF	8180	20450	0.6	4.5	≤43 dB(A)	F (155°C)	IEEE C57 / ANSI C84.1	1550 kg	1350×950×1500 mm
SG13-315/10/0.22	315	10 kV	0.22 kV	Dyn11 (IEC)	AN/AF	8180	20450	0.6	4.5	≤43 dB(A)	F (155°C)	IEC 60076	1550 kg	1350×950×1500 mm
SG13-315/0.48/0.208	315	0.48 kV	0.208 kV	Delta-Wye (IEEE Std)	AN/AF	8180	20450	0.6	4.5	≤43 dB(A)	F (155°C)	IEEE C57 / ANSI C84.1	1550 kg	1350×950×1500 mm
SG13-400/10/0.4	400	10 kV	0.4 kV	Dyn11 (IEC)	AN/AF	9710	24275	0.6	4.5	≤44 dB(A)	F (155°C)	IEC 60076	1800 kg	1400×980×1550 mm
SG13-400/6/0.4	400	6 kV	0.4 kV	Dyn11 (IEC)	AN/AF	9710	24275	0.6	4.5	≤44 dB(A)	F (155°C)	IEC 60076	1800 kg	1400×980×1550 mm
SG13-400/35/0.4	400	35 kV	0.4 kV	Dyn11 (IEC)	AN/AF	9710	24275	0.6	4.5	≤44 dB(A)	F (155°C)	IEC 60076	1800 kg	1400×980×1550 mm
SG13-400/10/0.48	400	10 kV	0.48 kV	Delta-Wye (IEEE Std)	AN/AF	9710	24275	0.6	4.5	≤44 dB(A)	F (155°C)	IEEE C57 / ANSI C84.1	1800 kg	1400×980×1550 mm
SG13-400/10/0.22	400	10 kV	0.22 kV	Dyn11 (IEC)	AN/AF	9710	24275	0.6	4.5	≤44 dB(A)	F (155°C)	IEC 60076	1800 kg	1400×980×1550 mm
SG13-400/0.48/0.208	400	0.48 kV	0.208 kV	Delta-Wye (IEEE Std)	AN/AF	9710	24275	0.6	4.5	≤44 dB(A)	F (155°C)	IEEE C57 / ANSI C84.1	1800 kg	1400×980×1550 mm
SG13-500/10/0.4	500	10 kV	0.4 kV	Dyn11 (IEC)	AN/AF	11410	28525	0.6	4.5	≤45 dB(A)	F (155°C)	IEC 60076	2100 kg	1450×1000×1600 mm
SG13-500/6/0.4	500	6 kV	0.4 kV	Dyn11 (IEC)	AN/AF	11410	28525	0.6	4.5	≤45 dB(A)	F (155°C)	IEC 60076	2100 kg	1450×1000×1600 mm
SG13-500/35/0.4	500	35 kV	0.4 kV	Dyn11 (IEC)	AN/AF	11410	28525	0.6	4.5	≤45 dB(A)	F (155°C)	IEC 60076	2100 kg	1450×1000×1600 mm
SG13-500/10/0.48	500	10 kV	0.48 kV	Delta-Wye (IEEE Std)	AN/AF	11410	28525	0.6	4.5	≤45 dB(A)	F (155°C)	IEEE C57 / ANSI C84.1	2100 kg	1450×1000×1600 mm
SG13-500/10/0.22	500	10 kV	0.22 kV	Dyn11 (IEC)	AN/AF	11410	28525	0.6	4.5	≤45 dB(A)	F (155°C)	IEC 60076	2100 kg	1450×1000×1600 mm

Model	Rated Capacity	HV Voltage	LV Voltage	Connection	Cooling	No-load Loss (W)	Load Loss (W)	No-load Current (%)	Impedance (%)	Noise (dB)	Insulation Class	Standard	Weight (kg) †	Dimensions (L×W×H) †
SG13-500/0.48/0.208	500	0.48 kV	0.208 kV	Delta-Wye (IEEE Std)	AN/AF	11410	28525	0.6	4.5	≤45 dB(A)	F (155°C)	IEEE C57 / ANSI C84.1	2100 kg	1450×1000×1600 mm
SG13-630/10/0.4	630	10 kV	0.4 kV	Dyn11 (IEC)	AN/AF	13470	33675	0.5	4.5	≤46 dB(A)	F (155°C)	IEC 60076	2400 kg	1500×1050×1700 mm
SG13-630/6/0.4	630	6 kV	0.4 kV	Dyn11 (IEC)	AN/AF	13470	33675	0.5	4.5	≤46 dB(A)	F (155°C)	IEC 60076	2400 kg	1500×1050×1700 mm
SG13-630/35/0.4	630	35 kV	0.4 kV	Dyn11 (IEC)	AN/AF	13470	33675	0.5	4.5	≤46 dB(A)	F (155°C)	IEC 60076	2400 kg	1500×1050×1700 mm
SG13-630/10/0.48	630	10 kV	0.48 kV	Delta-Wye (IEEE Std)	AN/AF	13470	33675	0.5	4.5	≤46 dB(A)	F (155°C)	IEEE C57 / ANSI C84.1	2400 kg	1500×1050×1700 mm
SG13-630/10/0.22	630	10 kV	0.22 kV	Dyn11 (IEC)	AN/AF	13470	33675	0.5	4.5	≤46 dB(A)	F (155°C)	IEC 60076	2400 kg	1500×1050×1700 mm
SG13-630/0.48/0.208	630	0.48 kV	0.208 kV	Delta-Wye (IEEE Std)	AN/AF	13470	33675	0.5	4.5	≤46 dB(A)	F (155°C)	IEEE C57 / ANSI C84.1	2400 kg	1500×1050×1700 mm
SG13-800/10/0.4	800	10 kV	0.4 kV	Dyn11 (IEC)	AN/AF	16000	40000	0.5	6	≤47 dB(A)	F (155°C)	IEC 60076	2700 kg	1550×1080×1800 mm
SG13-800/6/0.4	800	6 kV	0.4 kV	Dyn11 (IEC)	AN/AF	16000	40000	0.5	6	≤47 dB(A)	F (155°C)	IEC 60076	2700 kg	1550×1080×1800 mm
SG13-800/35/0.4	800	35 kV	0.4 kV	Dyn11 (IEC)	AN/AF	16000	40000	0.5	6	≤47 dB(A)	F (155°C)	IEC 60076	2700 kg	1550×1080×1800 mm
SG13-800/10/0.48	800	10 kV	0.48 kV	Delta-Wye (IEEE Std)	AN/AF	16000	40000	0.5	6	≤47 dB(A)	F (155°C)	IEEE C57 / ANSI C84.1	2700 kg	1550×1080×1800 mm
SG13-800/10/0.22	800	10 kV	0.22 kV	Dyn11 (IEC)	AN/AF	16000	40000	0.5	6	≤47 dB(A)	F (155°C)	IEC 60076	2700 kg	1550×1080×1800 mm
SG13-800/0.48/0.208	800	0.48 kV	0.208 kV	Delta-Wye (IEEE Std)	AN/AF	16000	40000	0.5	6	≤47 dB(A)	F (155°C)	IEEE C57 / ANSI C84.1	2700 kg	1550×1080×1800 mm
SG13-1000/10/0.4	1000	10 kV	0.4 kV	Dyn11 (IEC)	AN/AF	18790	46975	0.5	6	≤47 dB(A)	F (155°C)	IEC 60076	3000 kg	1600×1100×1850 mm
SG13-1000/6/0.4	1000	6 kV	0.4 kV	Dyn11 (IEC)	AN/AF	18790	46975	0.5	6	≤47 dB(A)	F (155°C)	IEC 60076	3000 kg	1600×1100×1850 mm
SG13-1000/35/0.4	1000	35 kV	0.4 kV	Dyn11 (IEC)	AN/AF	18790	46975	0.5	6	≤47 dB(A)	F (155°C)	IEC 60076	3000 kg	1600×1100×1850 mm
SG13-1000/10/0.48	1000	10 kV	0.48 kV	Delta-Wye (IEEE Std)	AN/AF	18790	46975	0.5	6	≤47 dB(A)	F (155°C)	IEEE C57 / ANSI C84.1	3000 kg	1600×1100×1850 mm

Model	Rated Capacity	HV Voltage	LV Voltage	Connection	Cooling	No-load Loss (W)	Load Loss (W)	No-load Current (%)	Impedance (%)	Noise (dB)	Insulation Class	Standard	Weight (kg) †	Dimensions (L×W×H) †
SG13-1000/10/0.22	1000	10 kV	0.22 kV	Dyn11 (IEC)	AN/AF	18790	46975	0.5	6	≤47 dB(A)	F (155°C)	IEC 60076	3000 kg	1600×1100×1850 mm
SG13-1000/0.48/0.208	1000	0.48 kV	0.208 kV	Delta-Wye (IEEE Std)	AN/AF	18790	46975	0.5	6	≤47 dB(A)	F (155°C)	IEEE C57 / ANSI C84.1	3000 kg	1600×1100×1850 mm
SG13-1250/10/0.4	1250	10 kV	0.4 kV	Dyn11 (IEC)	AF	22070	55175	0.5	6	≤48 dB(A)	F (155°C)	IEC 60076	3500 kg	1700×1150×1950 mm
SG13-1250/6/0.4	1250	6 kV	0.4 kV	Dyn11 (IEC)	AF	22070	55175	0.5	6	≤48 dB(A)	F (155°C)	IEC 60076	3500 kg	1700×1150×1950 mm
SG13-1250/35/0.4	1250	35 kV	0.4 kV	Dyn11 (IEC)	AF	22070	55175	0.5	6	≤48 dB(A)	F (155°C)	IEC 60076	3500 kg	1700×1150×1950 mm
SG13-1250/10/0.48	1250	10 kV	0.48 kV	Delta-Wye (IEEE Std)	AF	22070	55175	0.5	6	≤48 dB(A)	F (155°C)	IEEE C57 / ANSI C84.1	3500 kg	1700×1150×1950 mm
SG13-1250/10/0.22	1250	10 kV	0.22 kV	Dyn11 (IEC)	AF	22070	55175	0.5	6	≤48 dB(A)	F (155°C)	IEC 60076	3500 kg	1700×1150×1950 mm
SG13-1250/0.48/0.208	1250	0.48 kV	0.208 kV	Delta-Wye (IEEE Std)	AF	22070	55175	0.5	6	≤48 dB(A)	F (155°C)	IEEE C57 / ANSI C84.1	3500 kg	1700×1150×1950 mm
SG13-1600/10/0.4	1600	10 kV	0.4 kV	Dyn11 (IEC)	AF	26360	65900	0.5	6	≤49 dB(A)	F (155°C)	IEC 60076	4100 kg	1800×1200×2050 mm
SG13-1600/6/0.4	1600	6 kV	0.4 kV	Dyn11 (IEC)	AF	26360	65900	0.5	6	≤49 dB(A)	F (155°C)	IEC 60076	4100 kg	1800×1200×2050 mm
SG13-1600/35/0.4	1600	35 kV	0.4 kV	Dyn11 (IEC)	AF	26360	65900	0.5	6	≤49 dB(A)	F (155°C)	IEC 60076	4100 kg	1800×1200×2050 mm
SG13-1600/10/0.48	1600	10 kV	0.48 kV	Delta-Wye (IEEE Std)	AF	26360	65900	0.5	6	≤49 dB(A)	F (155°C)	IEEE C57 / ANSI C84.1	4100 kg	1800×1200×2050 mm
SG13-1600/10/0.22	1600	10 kV	0.22 kV	Dyn11 (IEC)	AF	26360	65900	0.5	6	≤49 dB(A)	F (155°C)	IEC 60076	4100 kg	1800×1200×2050 mm
SG13-1600/0.48/0.208	1600	0.48 kV	0.208 kV	Delta-Wye (IEEE Std)	AF	26360	65900	0.5	6	≤49 dB(A)	F (155°C)	IEEE C57 / ANSI C84.1	4100 kg	1800×1200×2050 mm
SG13-2000/10/0.4	2000	10 kV	0.4 kV	Dyn11 (IEC)	AF	30950	77375	0.4	6	≤50 dB(A)	F (155°C)	IEC 60076	4800 kg	1900×1250×2150 mm
SG13-2000/6/0.4	2000	6 kV	0.4 kV	Dyn11 (IEC)	AF	30950	77375	0.4	6	≤50 dB(A)	F (155°C)	IEC 60076	4800 kg	1900×1250×2150 mm
SG13-2000/35/0.4	2000	35 kV	0.4 kV	Dyn11 (IEC)	AF	30950	77375	0.4	6	≤50 dB(A)	F (155°C)	IEC 60076	4800 kg	1900×1250×2150 mm

Model	Rated Capacity	HV Voltage	LV Voltage	Connection	Cooling	No-load Loss (W)	Load Loss (W)	No-load Current (%)	Impedance (%)	Noise (dB)	Insulation Class	Standard	Weight (kg) †	Dimensions (L×W×H) †
SG13-2000/10/0.48	2000	10 kV	0.48 kV	Delta-Wye (IEEE Std)	AF	30950	77375	0.4	6	≤50 dB(A)	F (155°C)	IEEE C57 / ANSI C84.1	4800 kg	1900×1250×2150 mm
SG13-2000/10/0.22	2000	10 kV	0.22 kV	Dyn11 (IEC)	AF	30950	77375	0.4	6	≤50 dB(A)	F (155°C)	IEC 60076	4800 kg	1900×1250×2150 mm
SG13-2000/0.48/0.208	2000	0.48 kV	0.208 kV	Delta-Wye (IEEE Std)	AF	30950	77375	0.4	6	≤50 dB(A)	F (155°C)	IEEE C57 / ANSI C84.1	4800 kg	1900×1250×2150 mm
SG13-2500/10/0.4	2500	10 kV	0.4 kV	Dyn11 (IEC)	AF	36350	90875	0.4	6	≤50 dB(A)	F (155°C)	IEC 60076	5800 kg	2000×1300×2250 mm
SG13-2500/6/0.4	2500	6 kV	0.4 kV	Dyn11 (IEC)	AF	36350	90875	0.4	6	≤50 dB(A)	F (155°C)	IEC 60076	5800 kg	2000×1300×2250 mm
SG13-2500/35/0.4	2500	35 kV	0.4 kV	Dyn11 (IEC)	AF	36350	90875	0.4	6	≤50 dB(A)	F (155°C)	IEC 60076	5800 kg	2000×1300×2250 mm
SG13-2500/10/0.48	2500	10 kV	0.48 kV	Delta-Wye (IEEE Std)	AF	36350	90875	0.4	6	≤50 dB(A)	F (155°C)	IEEE C57 / ANSI C84.1	5800 kg	2000×1300×2250 mm
SG13-2500/10/0.22	2500	10 kV	0.22 kV	Dyn11 (IEC)	AF	36350	90875	0.4	6	≤50 dB(A)	F (155°C)	IEC 60076	5800 kg	2000×1300×2250 mm
SG13-2500/0.48/0.208	2500	0.48 kV	0.208 kV	Delta-Wye (IEEE Std)	AF	36350	90875	0.4	6	≤50 dB(A)	F (155°C)	IEEE C57 / ANSI C84.1	5800 kg	2000×1300×2250 mm
SG13-3150/10/0.4	3150	10 kV	0.4 kV	Dyn11 (IEC)	AF	42930	107325	0.4	7	≤51 dB(A)	F (155°C)	IEC 60076	7000 kg	2100×1400×2400 mm
SG13-3150/6/0.4	3150	6 kV	0.4 kV	Dyn11 (IEC)	AF	42930	107325	0.4	7	≤51 dB(A)	F (155°C)	IEC 60076	7000 kg	2100×1400×2400 mm
SG13-3150/35/0.4	3150	35 kV	0.4 kV	Dyn11 (IEC)	AF	42930	107325	0.4	7	≤51 dB(A)	F (155°C)	IEC 60076	7000 kg	2100×1400×2400 mm
SG13-3150/10/0.48	3150	10 kV	0.48 kV	Delta-Wye (IEEE Std)	AF	42930	107325	0.4	7	≤51 dB(A)	F (155°C)	IEEE C57 / ANSI C84.1	7000 kg	2100×1400×2400 mm
SG13-3150/10/0.22	3150	10 kV	0.22 kV	Dyn11 (IEC)	AF	42930	107325	0.4	7	≤51 dB(A)	F (155°C)	IEC 60076	7000 kg	2100×1400×2400 mm
SG13-3150/0.48/0.208	3150	0.48 kV	0.208 kV	Delta-Wye (IEEE Std)	AF	42930	107325	0.4	7	≤51 dB(A)	F (155°C)	IEEE C57 / ANSI C84.1	7000 kg	2100×1400×2400 mm
SG13-4000/10/0.4	4000	10 kV	0.4 kV	Dyn11 (IEC)	AF	50980	127450	0.4	7	≤52 dB(A)	F (155°C)	IEC 60076	8300 kg	2200×1500×2550 mm
SG13-4000/6/0.4	4000	6 kV	0.4 kV	Dyn11 (IEC)	AF	50980	127450	0.4	7	≤52 dB(A)	F (155°C)	IEC 60076	8300 kg	2200×1500×2550 mm

Model	Rated Capacity	HV Voltage	LV Voltage	Connection	Cooling	No-load Loss (W)	Load Loss (W)	No-load Current (%)	Impedance (%)	Noise (dB)	Insulation Class	Standard	Weight (kg) †	Dimensions (L×W×H) †
SG13-4000/35/0.4	4000	35 kV	0.4 kV	Dyn11 (IEC)	AF	50980	127450	0.4	7	≤52 dB(A)	F (155°C)	IEC 60076	8300 kg	2200×1500×2550 mm
SG13-4000/10/0.48	4000	10 kV	0.48 kV	Delta-Wye (IEEE Std)	AF	50980	127450	0.4	7	≤52 dB(A)	F (155°C)	IEEE C57 / ANSI C84.1	8300 kg	2200×1500×2550 mm
SG13-4000/10/0.22	4000	10 kV	0.22 kV	Dyn11 (IEC)	AF	50980	127450	0.4	7	≤52 dB(A)	F (155°C)	IEC 60076	8300 kg	2200×1500×2550 mm
SG13-4000/0.48/0.208	4000	0.48 kV	0.208 kV	Delta-Wye (IEEE Std)	AF	50980	127450	0.4	7	≤52 dB(A)	F (155°C)	IEEE C57 / ANSI C84.1	8300 kg	2200×1500×2550 mm
SG13-5000/10/0.4	5000	10 kV	0.4 kV	Dyn11 (IEC)	AF	59870	149675	0.4	7	≤53 dB(A)	F (155°C)	IEC 60076	10000 kg	2400×1600×2700 mm
SG13-5000/6/0.4	5000	6 kV	0.4 kV	Dyn11 (IEC)	AF	59870	149675	0.4	7	≤53 dB(A)	F (155°C)	IEC 60076	10000 kg	2400×1600×2700 mm
SG13-5000/35/0.4	5000	35 kV	0.4 kV	Dyn11 (IEC)	AF	59870	149675	0.4	7	≤53 dB(A)	F (155°C)	IEC 60076	10000 kg	2400×1600×2700 mm
SG13-5000/10/0.48	5000	10 kV	0.48 kV	Delta-Wye (IEEE Std)	AF	59870	149675	0.4	7	≤53 dB(A)	F (155°C)	IEEE C57 / ANSI C84.1	10000 kg	2400×1600×2700 mm
SG13-5000/10/0.22	5000	10 kV	0.22 kV	Dyn11 (IEC)	AF	59870	149675	0.4	7	≤53 dB(A)	F (155°C)	IEC 60076	10000 kg	2400×1600×2700 mm
SG13-5000/0.48/0.208	5000	0.48 kV	0.208 kV	Delta-Wye (IEEE Std)	AF	59870	149675	0.4	7	≤53 dB(A)	F (155°C)	IEEE C57 / ANSI C84.1	10000 kg	2400×1600×2700 mm

† Typical values, subject to confirmation. Final dimensions and weights are per factory GA drawings and routine test reports.

Standards & Certification

ISO 9001 Certified — Quality Management System
CE marking — available on selected models
Design and testing per IEC 60076, IEC 60076-11 (dry-type), IEC 61330 (substations), GB 1094 and related international standards.

Note: Certification details and test reports are provided upon request for the specific model and destination market.

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