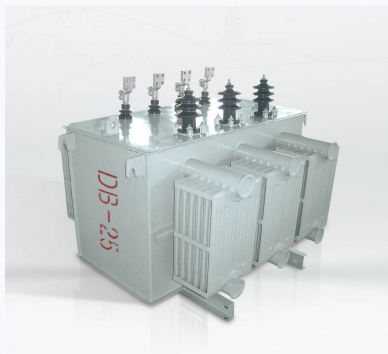




Amorphous Alloy

SBH15-M Amorphous-Alloy Distribution Transformer

The SBH15-M amorphous-alloy distribution transformer can replace silicon-steel-core transformers and is widely used in outdoor distribution systems. Deployed at scale on the grid it delivers excellent energy savings and reduced atmospheric pollution. It is particularly suited to sites with insufficient power and large load fluctuation, and where the insulating medium is not subject to atmospheric pollution — so it can run in humid environments. It is an ideal distribution device for both urban and rural distribution networks.

MODEL DESIGNATION

S B H 15 - M - □/□

S three-phase
H amorphous-alloy core
M sealed construction

B copper-foil LV winding
15 performance-level code
 □/□ rated capacity (kVA) / voltage class (kV)

TECHNICAL SPECIFICATIONS

Rated voltage	6 / 6.3 / 10 / 10.5 / 11 kV
Rated capacity	30 – 2500 kVA
LV voltage	0.4 kV
Connection	Dyn11
Tap range	±5% or ±2×2.5%
No-load loss	0.033 – 0.900 kW
Load loss	0.63 – 20.2 kW
No-load current	1.5% – 0.2%
Short-circuit impedance	4.0% / 4.5% / 5.0%
Core	Amorphous alloy
Standards	GB 1094 / GB/T 6451 / IEC 60076

NORMAL OPERATING ENVIRONMENT

- ▶ Altitude not exceeding 1000 m
- ▶ Ambient medium temperature ≤ +40 °C; max monthly average +30 °C; max annual average +20 °C; minimum –25 °C
- ▶ Outdoor or indoor installation
- ▶ Transformers for special operating conditions available on request

RATINGS & LOSSES

SBH15-M amorphous-alloy oil-immersed transformer — ultra-low no-load loss (amorphous core). HV 6/6.3/10/10.5/11 kV, LV 0.4 kV, Dyn11. Load loss at 75 °C. Per GB 1094 / GB/T 6451.

Capacity (kVA)	No-load loss (kW)	Load loss (kW)	No-load current (%)	Impedance Uk (%)
30	0.033	0.63	1.5	4
50	0.043	0.91	1.2	4
63	0.05	1.09	1.1	4
80	0.06	1.31	1	4
100	0.075	1.58	0.9	4
125	0.085	1.89	0.8	4
160	0.1	2.31	0.6	4
200	0.12	2.73	0.6	4
250	0.14	3.2	0.6	4
315	0.17	3.83	0.5	4
400	0.2	4.52	0.5	4
500	0.24	5.41	0.5	4
630	0.32	6.2	0.3	4.5
800	0.38	7.5	0.3	4.5
1000	0.45	10.3	0.3	4.5
1250	0.53	12	0.2	4.5
1600	0.63	14.5	0.2	4.5
2000	0.75	17.4	0.2	5
2500	0.9	20.2	0.2	5