

SH15 Series Amorphous Alloy Transformer

Eco-friendly and Energy-saving
Optimal Choice for Grid Upgrades



Nomenclature

S (B) **H** **15** - **M** - /

Three-phase Low-voltage foil winding Amorphous alloy core Technical level code Fully sealed Rated capacity (kVA) Voltage class (kV)

Product Overview

This is a hermetically sealed oil-filled transformer. Amorphous alloy is an isotropic soft magnetic material composed of iron, nickel, cobalt, silicon, boron, and carbon. It features low magnetizing power and is free from structural defects that hinder domain wall movement. With an ultra-thin thickness of only 0.027mm, a stacking factor of 0.75–0.8, and resistivity 3–6 times that of silicon steel, its hardness is 5 times higher. Amorphous alloy materials are particularly sensitive to stress.

The SH15-M-30-2500/6-10 series reduces no-load loss by 70% compared to the standard values in GB/T 6451.

Standard: GB/T 25446-2010 Technical Parameters for Oil-Immersed Amorphous Alloy Core Distribution Transformers

S20 Series Grade 2 Energy Efficiency Oil-Immersed Transformer - Main Performance Parameters

Model	Rated Capacity (kVA)	Vector Group	Voltage Combination (kV):			No-load Loss (W)	Load Loss - Delta connection (W)	Load Loss - Star/Wye connection (W)	No-load Current (%)	Short-circuit Impedance (%)
			High Voltage	Tapping Range	Low Voltage					
SH15-M-30	30	Dyn11	6	±5% or ±2x2.5%	0.4	33	630	600	1.5	4
SH15-M-50	50					43	910	870	1.2	
SH15-M-63	63					50	1090	1040	1.1	
SH15-M-80	80					60	1310	1250	1	
SH15-M-100	100					75	1580	1500	0.9	
SH15-M-125	125					85	1890	1800	0.8	
SH15-M-160	160					100	2310	2200	0.6	
SH15-M-200	200					120	2730	2600	0.6	
SH15-M-250	250					140	3200	3050	0.6	
SH15-M-315	315					170	3830	3650	0.5	
SH15-M-400	400					200	4520	4300	0.5	
SH15-M-500	500					240	5410	5150	0.5	
SH15-M-630	630					320	6200	6000	0.3	
SH15-M-800	800					380	7500	7300	0.3	
SH15-M-1000	1000					450	10300	10100	0.3	
SH15-M-1250	1250					530	12000	11800	0.2	
SH15-M-1600	1600					630	14500	14300	0.2	
SH15-M-2000	2000					750	18300	18100	0.2	
SH15-M-2500	2500					900	21200	21000	0.2	