

12~40.5kV SF6-Free GIS for Primary Distribution

NGH (Z) Series



CHINT GLOBAL INTERNATIONAL PTE. LTD.

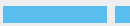
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NGH (Z) Series

With comprehensive performance and standardized modular design, CHINT’s 12-40.5 kV full-range Eco-friendly Gas Insulated Switchgear delivers optimized power T&D solutions for grid main networks, renewable energy power stations and green low-carbon industrial power supplies—meeting your key needs for performance, compliance, reliability, and sustainability.



Eco-Friendly

Dry air fully replaces SF6 with GWP=0. Eliminates greenhouse gas emissions and removes environmental compliance risks, supporting your carbon neutrality goals.



Highly Reliable

Optimized insulation design ensures stable switching and insulation performance even at gas leakage conditions at rated voltage.



Convenient & Flexible

Modular compartment construction enables plugand-play onsite assembly with no gas handling required, speeding up installation and allowing easy future expansion.

Key Specifications

Unit Function	Unit	NGH-12(Z)	NGH-24(Z)	NGH-40.5(Z)
Outlook	-			
Rated Voltage	kV	12	24	40.5
Rated Current	A	1250, 2500, 3150	1250	1250, 2500
Rated Frequency	Hz	50	50 / 60	50
Short Duration Power Frequency Voltage (1 min)	kV	42 / 48	65 / 79	95 / 118
Lightning Impulse Voltage	kV	75 / 85	125 / 145	185 / 215
Short Time Withstand Current	kA/s	31.5, 40/4	25/4	31.5/4
Peak Withstand Current	kA	80, 100	65	80
Short Circuit Breaking Capacity	kA	31.5, 40	25	31.5
Short Circuit Making Capacity	kA	80, 100	65	80
Circuit Breaker Endurance	-	E2-M2-C2-S1	E2-M2-C2-S2	E2-M2-C2-S1
Disconnecter / Earthing Switch Endurance	-	M1 / E1-M1	M1 / E2-M1	M1 / E2-M1
Operating Sequence	-	0-0.3s-CO-180s-CO	0-0.3s-CO-15s-CO	0-0.3s-CO-180s-CO
Internal Arc Classification	kA/s	AFLR 31.5, 40/1	AFLR 25/1	AFLR 31.5/1
Insulation Gas	-	Dry air		
Rated Functional Pressure (20°C Rel.)	MPa	0.02 / 0	0.05 / 0.025	0.05 / 0.02
Protection Degree (Gas Tank / Enclosure)	-	IP67 / IP4X		
Gas Leakage Rate Per Year	%	≤ 0.1		
Dimension (Width*Depth*Height)	mm	600*1400*2400 800*1700*2400	600*1230*2250	800, 1000*2263*2550

Application Scenarios



Heavy Industry



Data Center



T&D & Renewable Substation