

TGN0800-6400MV/TGN0800-8960MV
MV STATION



Product Features

- MV and LV isolated
- High temperature resistant insulation materials
- Independent LV AC wiring compartment
- All key components non-walk-in accessible

- Up to 9MW block design
- 20ft standard container, easy for transportation
- All pre-assembled, easy for set-up

- Remote control of HV/LV circuit breakers
- Intelligent tripping control of branch circuit breakers
- Branch power monitoring function
- Coordinated temperature control with inverter

- IP54+C5, adapt to various harsh environments
- All components type-tested
- Compliance with standards: IEC60076, IEC62271, IEC61439

Technical Parameters

Type designation	TGN0800-6400MV	TGN0800-8960MV
Transformer		
Transformer Type	Liquid immersed	
Nominal output power	6400kVA@45°C	8960kVA@45°C
Max. output power	7040kVA@30°C	9856kVA@30°C
Transformer vector	Dy11y11	
Nominal voltage	2×0.8kV/10kV~35kV	2×0.8kV/20kV~35kV
Max. input current	2×2310A	2×3233A
Frequency	50Hz/60Hz	
Voltage regulation	±2×2.5%@HV	
Efficiency	>99%@Pn; Tier 1/Tier 2 (EN 50588-1)	
Cooling method	ONAN (KNAN optional)	
Short circuit impedance	8% (±7.5%)	10% (±7.5%)
Oil type	Mineral oil (degradable oil on request)	
Winding material	Al (Cu optional)	
Insulation class	A (105°C)	
MV Switchgear		
Insulation medium	SF6	
Nominal voltage	24kV~40.5kV	
Nominal current	630A	
Short-term tolerance	25kA/4s	
Internal arcing fault	IAC AFL 20kA/1s	

LV Cabinet		
Main switch	3200A/800Vac/3P × 2	4000A/800Vac/3P × 2
Branch switch	320A/800Vac/3P × 20	320A/800Vac/3P × 28
Disconnecter	350A/800Vac/3P × 20	350A/800Vac/3P × 28
Fuse	350A/800Vac/3P × 20	350A/800Vac/3P × 28
Protection		
AC input protection	molded case circuit breaker / Fuse + Disconnector	
Surge protection	AC Type I + II	
General Data		
Dimensions (W*H*D)*	6058×2896×2438 mm	6058×2896×2438 mm
Approximate weight*	20T	24T
Operating ambient temperature range	-30℃ ~ +60℃	
Allowable relative humidity range	0 ~ 100%	
Auxiliary power supply	15kVA/400V (max. 50kVA)	
Degree of protection	IP54 (IP65 optional)	
Anti-corrosion degree	C4 (C5 optional)	
Communication	PLC (Inverter) , Ethernet (Optical fiber)	
Standard compliance	IEC 60076, IEC 62271-200, IEC 62271-202, IEC 61439-1, EN 50588-1, IEC 60076	

*Note: Actual dimension and weight are subject to delivery.