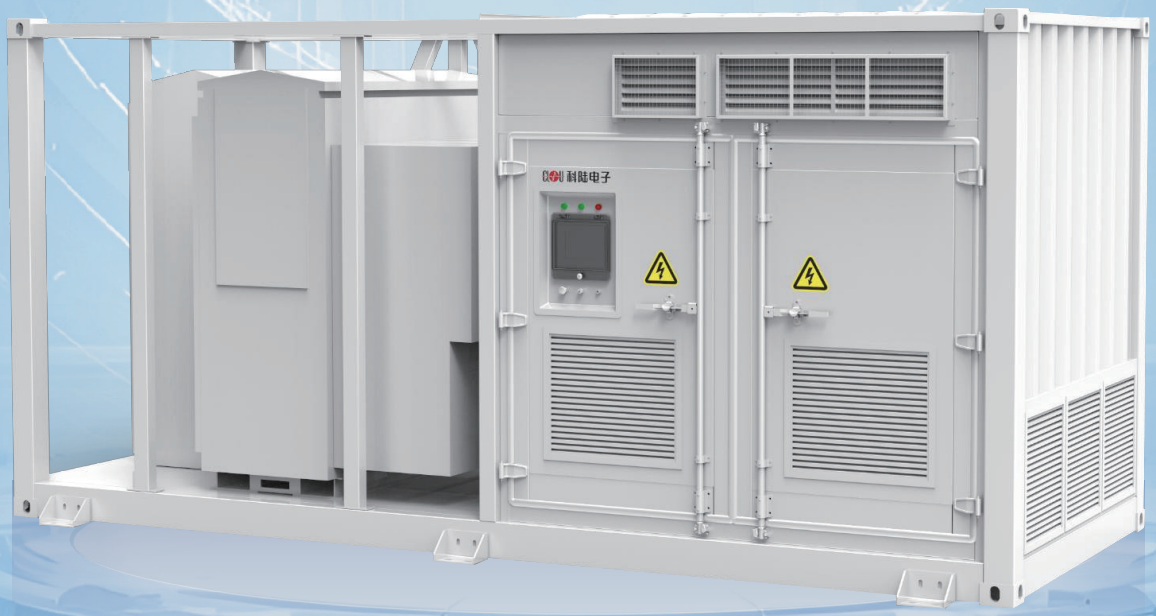
Midea Industrial Tech.

NE-5000-MV



NE-5000-MV
Medium Voltage Substation for Aqua C2.5S

Easy O&M

- Design for high availability and easy O&M
- Robust design against harsh environments optimal cooling

Efficient

- High efficiency transformer for higher yields
- Lower self-consumption for higher yields

Simple

- Prefabricated and pre-tested, no Internal cabling needed onsite
- Compact 20’ HC container design for easy transportation

Optional accessories

- Auxiliary services transformer (up to 200 kVA)
- Self-powered auxiliary services panel

NE-5000-MV

MV Transformer	IEC	UL
Nominal Power	5200 kVA	
MV/LV Voltage	11 kV -33 kV / 0.69 kV	11 kV -33 kV / 0.69 kV
Transformer vector	Dy11	
Rated frequency	50 Hz / 60 Hz	60 Hz
Impedance	8 % (tolerance ± 10 %)	8.5 % (±7.5 %, IEEE tolerance)
Material of winding (MV/LV)	Aluminum / Aluminum	
Cooling method	ONAN / KNAN （optional）	
Efficiency	≥99%@100% load EU548 Tier 2(optional)	≥99%@100% load10 CFR Part 431 (optional)
Smart control cabinet		
Protection	AC Breaker	
Surge protection	Type II	
Meter for main circuit	Optional	
AC Insulation detection	Optional	
Temperature control method	Air cooling and HVAC	
UPS	0.5h / 2h (optional)	
RMU (for IEC Only)		
Rated voltage	12 kV / 24 kV / 36 kV	
Rated current	630A (50Hz) / 600A (60Hz)	
Rated short-time withstand current	20 kA / 3 s or 25 kA / 1 s	
Compliance	IEC 62271	
General Data		
Dimensions (W*H*D)	6058*2896*2438mm	
Weight	⩽19000 kg	
Cable entry	Bottom entry	
Degree of protection	IP54 / IP55(optional)	Type 3R / Type 3S(optional)
Anti-corrosion degree	C4 / C5 (optional)	
Seismic Level	IEEE 693 Moderate design level qualification IEEE 693 High design level qualification (Optional)	
Operation temperature range	-35 to 60℃ (> 45℃ derating)	
Operation humidity range	0~100%, No condensation	
Max. operating altitude	2000m / 3000m (optional)	
Communication	RS485, CAN, Ethernet	
Compliance	IEC 62271-202, IEC 61439	UL 891, IEEE C57.12.00, IEEE C57.12.80, IEEE C57.12.90