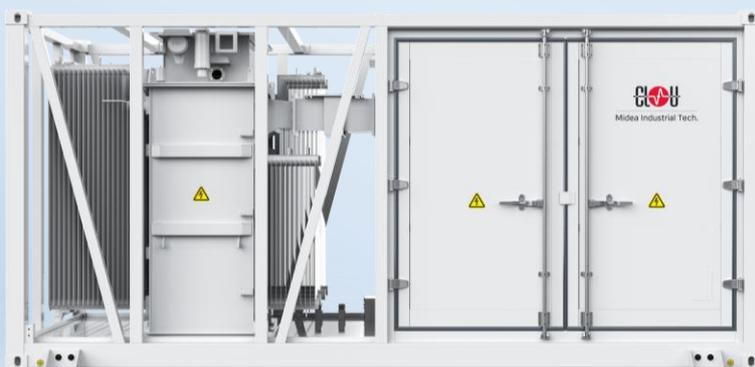


NE-5000-MV-IEC

Medium Voltage Substation for **Aqua-C2.5S** Liquid-Cooled Energy Storage System



* The illustration is for reference only. The actual product's appearance might vary depending on the configurations.

Parameter	NE-5000-MV-IEC
MV transformer	
Nominal power	5250 kVA
MV/LV voltage	11–33 kV/0.69 kV
Vector group	Dy11
Insulation level	A
Rated frequency	50 Hz/60 Hz
Impedance	7.5% (tolerance $\pm 10\%$)
Material of winding (MV/LV)	Aluminum/Aluminum
Cooling type	ONAN KNAN (optional)
Efficiency	$\geq 99\%$ @ 100% load EU548/2014 Tier 2 (optional)
Smart control cabinet	
Protection	AC breaker
Surge protection	Type II
Meter for main circuit	Optional
AC insulation detection	Supported (optional)
Cooling method	Air cooling and HVAC
UPS	0.5 h 2 h (optional)

Parameter	NE-5000-MV-IEC
RMU	
Rated voltage	12 kV/24 kV/36 kV
Rated current	630 A (50 Hz)/600 A (60 Hz)
Rated short-time withstand current	20 kA/3 s or 25 kA/1 s
Compliance	IEC 62271
General data	
Dimension (W x D x H)	6058 x 2438 x 2896 mm
Weight	≤ 19000 kg
Cable entry	Wiring in from bottom
Ingress protection (IP) rating	IP54 IP55 (optional)
Anti-corrosion degree	C4 C5 (optional)
Seismic level	IEEE 693 moderate seismic level qualification IEEE 693 high seismic level qualification (optional)
Operating temperature range	-35°C to +60°C (> 45°C derating)
Operating humidity range	0%–100% (non-condensing)
Max. operating altitude	2000 m 3000 m (optional)
Communication	RS485, CAN, Ethernet
Standard compliance	IEC 62271-202, IEC 61439

* A single MVS can support a maximum of four Aqua-C2.5S units in parallel. The power capacity of the medium-voltage transformer can be adjusted to match the system's requirements, with options ranging from 2 to 8 hours of operation.