

MVS5140-LS

MV Turnkey Solution for **PowerTitan 2.0** MVS Liquid Cooling Energy Storage System

NEW



Product Name	MVS5140-LS
MV transformer	
Rated power	5140 kVA
MV / LV voltage	11 kV ~ 33 kV / 0.69 kV
Transformer vector	Dy11
Insulation level	A
Rated frequency	50 Hz / 60 Hz
Impedance	8 % (Tolerance ± 10 %)
Material of winding (MV / LV)	Aluminum / Aluminum
Cooling method	ONAN
Degree of protection	Transformer body: IP68 Other parts: IP55
RMU	
Rated voltage	24 kV / 36 kV
Rated current	630 A (50 Hz) / 600 A (60 Hz)
Units	DCV / CCV / CV / DV
Relay protection	ANSI 50 , 50N , 51 , 51N
Rated short-time withstand current	20 kA / 3 s or 25 kA / 1 s
Smart control cabinet	
Protection	AC Breaker
Surge protection	Type II
Meter for main circuit	Optional
AC insulation detection	Support
Temperature control method	Air cooling and HVAC
Degree of protection	IP55
UPS	15 min (Default) 2 / 3 / 4 h (Optional)
General data	
Dimensions (W * H * D)	6058 mm * 2896 mm * 2438 mm
Weight	17400 kg
Cable entry	Bottom Entry
Degree of protection	IP55
Anti-corrosion Degree	C4
Operation temperature range	-40 °C ~ 60 °C > 40 °C derating (Default) > 45 °C derating (Optional)
Operation humidity range	0 % - 100 %
Max. operating altitude	4500 m
Communication	Ethernet , Optical fiber , RS485
Standard	IEC 62271-202, IEC 61439

* 15min UPS only supplies power for the control and communication devices in the MVS

** 2 / 3 / 4 h UPS supplies power for the control and communication devices in the the MVS, and the ventilation system in the battery container

