

HOPEWIND

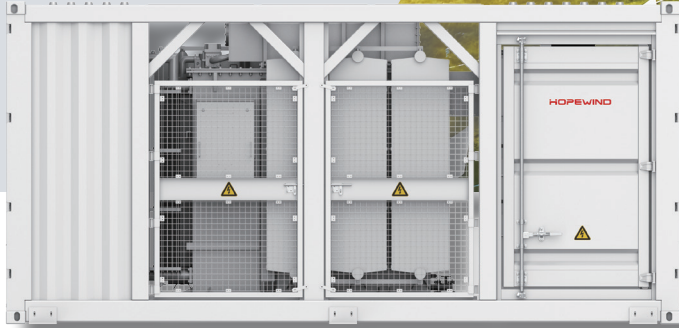
MV TRANSFORMER STATION

HPMVS Series

3000/6000/9000

TIER 1
BloombergNEF

Hopewind is ranked as
Tier 1 Solar Inverter Maker by BNEF



BRIEF INTRODUCTION

Hopewind MV Transformer Station integrates LV panel, Step-up Transformer, RMU and other auxiliaries to a 20-foot HC container, convert LV AC power to MV AC power and inject to grid system. The integrated and cost effective solution is ideal for easy transportation and quick installation.

FEATURES



Cost-saving

- Easy transportation with standard container design
- High Efficiency Transformer & Lower Self-consumption for Higher Yields



Integrated and Convenient

- Prefabricated and Pre-tested
- Plug-and-play installation, no Internal Cabling Needed Onsite



Safety & Reliability

- Type-tested components of reliable quality
- The highest IP level in the market and C4 anti-corrosion, adaptable to harsh environments



Easy O&M

- LV panel, transformer and RMU real-time monitoring and remote control, without walk-in operation
- Integrated modular design simplifying maintenance

PARAMETERS

Model	HPMVS-3000	HPMVS-6000	HPMVS-9000
Input			
Available inverters	HSHV385K		
No. of inverters	9	18	24
AC power @40°C	3465 kVA	6930 kVA	9240 kVA
LV switches	MCCB (400 A / 800 Vac / 3P, 9pcs)	MCCB (400 A / 800 Vac / 3P, 18pcs)	MCCB (400 A / 800 Vac / 3P, 24pcs)
	ACB (4000 A / 800 Vac / 3P, 1pc)	ACB (4000 A / 800 Vac / 3P, 2pcs)	ACB (4000 A / 800 Vac / 3P, 2pcs)
Rated input voltage	800V		
Output			
Rated output voltage	10 kV-35 kV		
Rated frequency	50 Hz / 60 Hz		
Transformer type	Oil-immersed, fully sealed, Dy11	Oil-immersed, fully sealed, Dy11y11	
Transformer tapping	±2×2.5%		
Transformer oil type	Mineral oil (PCB free)		
Transformer cooling type	ONAN		
Transformer Min. Peak Efficiency	99% / Tier1 / Tier2 (optional)		
RMU type	SF6 gas insulated, DCV or CCV		
Impedance (HV-LV1, LV2)	6.5%	8%	9.5%
Auxiliary transformer	Dry type, 5 kVA, 800 V / 400 V, Dyn11, level H (Customizable)		
UPS	1 kVA, 30 min (Customizable)		
Protection			
Transformer monitoring and protection	Oil Level, Oil Temperature, Oil Pressure and Buchholz relay		
Rated short-circuit breaking current	20 kA / 3 s (Optional: 25kA/1 s)		
MV relay protection	50 / 51, 50N / 51N		
LV Overvoltage protection	Type I+II		
Protection degree	IP54 for whole box transformer IP68 for transformer body		
Anti-corrosion degree	C4		
General			
Dimensions	6058 × 2896 × 2438 mm, standard 20-foot HC container		
Weight	<15 T	<22 T	<27 T
Temperature range	-25°C~+60°C		
Relative humidity	0%~95%		
Max. Operating altitude	2,000 m		
Communication protocol	Modbus-RTU / Modbus-TCP / IEC104		
Color	RAL7035		
Applicable Standards	IEC 62271-200/202, EN 50588-1, IEC 60076, IEC 61439-1		

