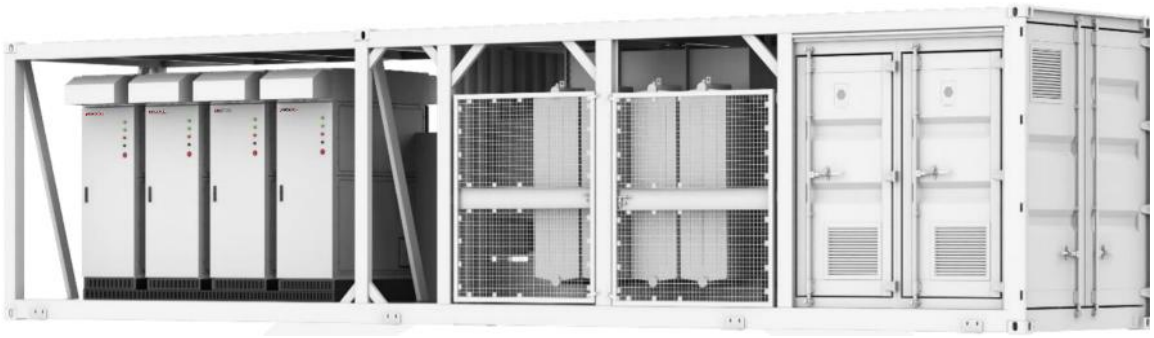
SES4H-4980-MV-EX
Prefabricated Inverter Substation



Features

Flexible Configuration

- Integrated inverter and booster, highly compact
- Improves space efficiency, easier installation
- Modular, configurable power

High Efficiency & Stability

- 1500V wide-range DC voltage
- DC side 4/2 branch
- 4980MWh, 0.5C and 0.25C application

Intelligent Collaboration

- Automated peak shaving operation
- VSG / PQ / VF mode capability
- Islanding, black start capable

Safety & Compatibility

- With LVRT and HVRT
- 4-quadrant active and reactive power control
- Fast power response (<20ms)

ORIENT POWER

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MVS Product Specification

Model	SES4H-4980-MV-EX
AC AND DC PARAMTER	
Rated Power	4980kVA
AC Voltage	10kV-33kV (Consult with OTE for other voltage level)
AC Frequency	50Hz
DC Voltage Range	1040~1500V
Number of DC Branch	2/4
Max. DC Current per Branch	2404A/1202A
THDi/THDu	<3%
LC AND AUXILIARY EQUIPMENT	
Aux. Transformer	200kVA, 690V\400V, 50Hz, 3P4W (Consult with OTE for Customized)
UPS	Up to 2kVA (1h standard) (Consult with OTE for more capacity)
Meter	Meters for Aux. Power Consumption and PCS
Communication Method	RS485, CAN, TCP/IP (via switch)
Cooling Method	Temperature controlled forced air cooling
Output Power	400V/50Hz 3P4W (Power supply for external equipment)
TRANSFORMER	
Capacity	4980kVA @45℃ Based on PCS rated power
Transformer Type	Oil-immersed transformer
Transformer Protection	Protection relay for pressure, temperature (two levels) and gas.
Winding Vector Group	Dy11y11 (Consult with OTE for customized)
MV AC Voltage Level	12/24/36kV (Consult with OTE for other voltage level)
LV AC Voltage	690V (Consult with OTE for other voltage level)
AC Frequency	50Hz
Efficiency	Tier 2 (From EU548)
Transformer Impedance	7%~8%
Cooling Type	ONAN (Based on project requirement)
Insulation Level	Class A

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MVS Product Specification

CONNECTION AND PROTECTION	
Switchgear Configuration	DeV\CV\CCV\VMV(Customized) (Consult with OTE for customized)
Switchgear Protection	Medium-voltage vacuum circuit breaker(V)
Internal Arc Classification Medium- voltage Control Room (according to IEC 62271-202)	20kA 3s
LV-MV Connections	Copper bar or cable
LV Protection	Motorized CB in PCS
MV Protection	Microcomputer protection
DC Protection	Circuit Breaker and Fuses
GENERAL PARAMETER	
Size (W*H*D)	12192*2896*2438 mm
Weight	≤30t
Enclosure	IP55 for Overall (IP68 for Transformer; IP65 for PCS)
Corrosion Prevention	C5 (Only applicable to external mechanical part)
PCS Cooling Method	Air Cooling
Operating Temp.	-25 ℃ to 60 ℃ (Derating above 45 ℃)
Storage Temp.	-50 ℃ to 70 ℃
Operating Humidity	0~95% (No condensing)
Storage Humidity	0~100% (No condensing)
Max. Elevation	Standard 1000 m (Consult with OTE for other elevation)
Inverter Max. Efficiency	98.5%
Voltage Regulation Accuracy	≤±1%
Current Regulation Accuracy	≤±1%
CERTIFICATION	
Compliance	IEC62477/IEC61000/G99/VDE4110/ EN50549-2/IEC60076/IEC62271 (Consult with OTE for more certification information)

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