

Wind Converter



Clean power for all

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Sungrow Wind

Established in 2004,

Sungrow Wind continues promoting the development and

engineering application of electronic conversion technology,

comprehensively conducting research on high-power electric energy conversion.

Sungrow is the first to realize the localization of MW-level doubly-fed & full power wind converter,

The power class of products covers 1.5MW-30MW,

The voltage grade includes 690V/950V/1140V/1800V/3300V,

State-of-the-art innovations driving the wind industry including 1800V ultra-high power solution,

low-frequency transmission product, and grid-forming technology.

Sungrow Wind will continue deepening in the field of electronic control and

be committed to taking the lead in wind conversion and transmission.

200GW

As of Jan, 2026, total converter shipments reached 200GW

63GW TOP1

No.1 worldwide in wind converter shipments for consecutive years

(Date source : Brinckmann)

Innovations and Honors

- Presided over and formulate national standards for wind converter.
- Completed the certification for three-level full power & doubly-fed wind converter in high and low trade through and type designation.
- First to launch ultra high power air cooling doubly-fed wind converter solution.
- Realized the grid-connection of world's first voltage source wind converter.
- Pioneered the rollout of wind-storage integrated system solution.
- First to launch a new generation of high-protective air-cooling converter.
- Wind converter shipments hit 63GW in 2025, ranking globally No.1.
- As of January 2026, cumulative shipments reached 200GW milestone.

Certifications





690V/1140V/1800V Doubly-Fed Wind Converter

Single converter power range: 1.5MW-6.25MW

Doubly-fed Wind Converter-690V

Rated power	3MW	6MW
Semiconductor type	IGBT	IGBT
Grid Data		
Grid voltage (V)	AC 690±10%	AC 690±10%
Grid-side rated current (A)	500	980
Inverter-side rated current (A)	850	1700
System performance Data		
Efficiency(%)	> 97	> 97
Noise(dB)	< 80	< 80
Operation temperature (°C)	-30~+45	-30~+50
Cooling method *	Air cooling	Liquid cooling
IP grade *	IP23	IP54
Mechanical Data		
Dimensions L*W*H (mm)	2600*2200*600	2400*2200*650

* Customized according to unique requirements

690V/1140V/1800V

Full Power Wind Converter

Single converter power range: 2MW-8MW

Full Power Wind Converter

Rated power	5MW	8MW
Semiconductor type	IGBT	IGBT
Grid Data		
Grid voltage (V)	AC 690±10%	AC 690±10%
Grid-side rated current (A)	4894	8000
Inverter-side rated current (A)	4894	8000
System performance Data		
Efficiency(%)	> 97	> 97
Noise(dB)	< 80	< 80
Operation temperature(°C)	-30~+50	-30~+50
Cooling method *	Liquid cooling	Liquid cooling
IP grade *	IP54	IP54
Mechanical Data		
Dimensions L*W*H (mm)	3000*2200*1300	4000*2400*1300

* Customized according to unique requirements

3300V

Full Power Wind Converter

Single converter power range: 7MW-16MW

Full Power Wind Converter-3300V

Rated power	5MW	6MW	7MW	8MW	10MW	12.5MW
Semiconductor type	IGBT					IGBT
Grid Data						
Grid voltage (V)	AC 3300±10%					AC 3300±10%
Grid-side rated current (A)	1023	1228	1432	1637	2046	2558
Inverter-side rated current (A)	1023	1228	1432	1637	2046	2558
System performance Data						
Efficiency(%)	> 98					> 98
Noise(dB)	< 80					< 80
Environment Temperature(°C)	-30~+45					-30~+45
Storage Temperature(°C)	-40~+75					-40~+75
Operation Temperature(in water)(°C)	+5~+45					+5~+35
Cooling method *	Liquid cooling					Liquid cooling
IP grade *	IP54					IP54
Mechanical Data						
Altitude(m)	≤2000					≤2000
Dimensions L*W*H (mm)	4000*2200*2400					4000*2200*2400

* Customized according to unique requirements

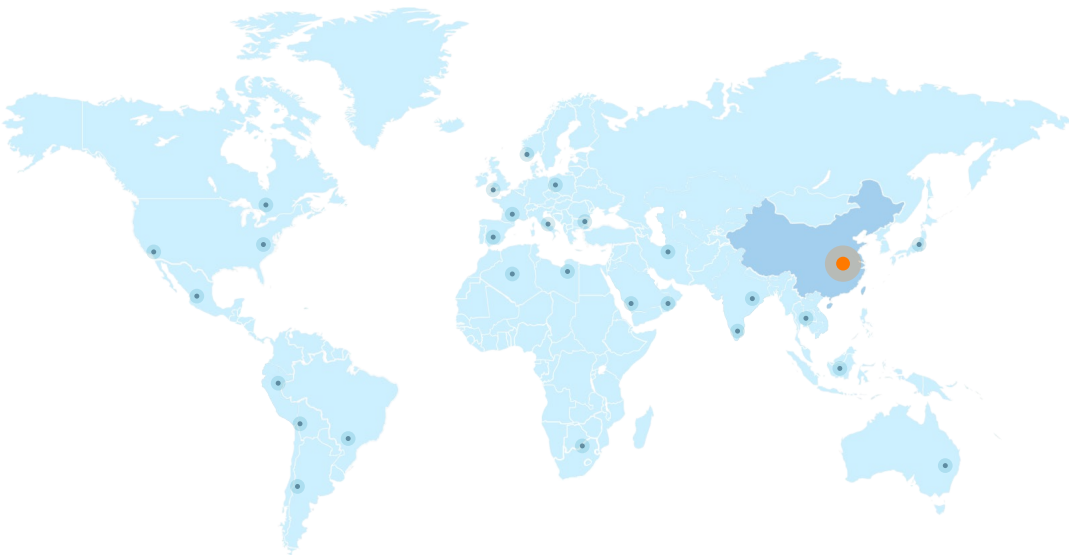
Customer Service

Global Service Network
5 Main Service Regions

400+
Global Authorized Service Partners

520+
Global Service Outlets

180+
Countries/Regions Coverage



Standard Warranty

-  Pre-commissioning
-  Installation and Commissioning
-  Preventive Maintenance
-  Local Maintenance Depots
-  On-site spare parts
-  On-site Engineers
-  Remote Service Support

Warranty Service

Customized Warranty

98% the min rate

According to unique needs
customize the warranty period
content within 25 years

provide equipment online rate guarantee
continuously guarantee the stable power generation of the system

Typical Projects

Sungrow Wind Converter supplies to all main WTG OEMs and turbines.



Offshore Wind Farm in Fujian, ZhangZhou
13MW Wind Converter Batch Application



Wind Farm in Zhangbei, Hebei
Grid Connection of 1800V Wind Converter



A Wind Farm in Zhangbei, Hebei
Grid-forming Technology Application



Basu Wind Farm in Tibet at 5,200M
Ultra-High Altitude Wind Converter Application

RE100 EP100

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