

# GUANGXI Product Certifications

## Summary

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### Global Compliance & Quality Assurance

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GUANGXI Energy Technology Co., Ltd.

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## 1. Certification Overview

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GUANGXI Energy Technology Co., Ltd. is committed to providing safe, reliable, and high-quality solar energy products to global customers. All our products have obtained

authoritative certifications from major markets worldwide, ensuring compliance with local safety standards and grid connection requirements.

## 1.1 Global Certification Coverage

Our products have obtained certifications from the following regions and countries:

- **Europe:** CE, VDE, EN 50549, G98/G99 (UK)
- **North America:** UL 1741, UL 9540, IEEE 1547, CSA C22.2
- **Australia/New Zealand:** AS/NZS 4777, CEC
- **Asia:** CQC (China), JET (Japan), KC (Korea)
- **International:** IEC 62109, IEC 61000, IEC 62040

## 1.2 Certification Principles

- **Safety First:** All products undergo rigorous safety testing
  - **Grid Compliance:** Meet grid connection standards in all regions
  - **Quality Assurance:** ISO 9001 quality management system
  - **Environmental Responsibility:** RoHS, REACH compliant
  - **Continuous Improvement:** Regular certification updates and renewals
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## 2. Inverter Product Certifications

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### 2.1 Residential Hybrid Inverter Series (LS-H Series)

**Applicable Models:** LS-3K-H1, LS-5K-H1, LS-6K-H1, LS-8K-H1, LS-10K-H1

Certification	Standard	Issuing Authority	Validity	Status
<b>CE</b>	EN 62109-1/2	TÜV Rheinland	2024-2027	✓ Valid
<b>VDE</b>	VDE-AR-N 4105	VDE Testing	2024-2027	✓ Valid
<b>UL 1741</b>	UL 1741 SA	UL LLC	2024-2027	✓ Valid
<b>IEEE 1547</b>	IEEE 1547-2018	NRTL	2024-2027	✓ Valid
<b>AS/NZS 4777</b>	AS/NZS 4777.2:2020	SAI Global	2024-2027	✓ Valid
<b>G98/G99</b>	G98/G99 (UK)	BSI	2024-2027	✓ Valid
<b>CQC</b>	GB/T 37408	CQC	2024-2027	✓ Valid

### Key Test Items:

- Safety testing (insulation, grounding, fire protection)
- EMC testing (electromagnetic compatibility)
- Grid connection testing (voltage, frequency, anti-islanding)
- Environmental testing (temperature, humidity, vibration)
- Performance testing (efficiency, THD, power factor)

## 2.2 Commercial Three-Phase Inverter Series (LS-T Series)

**Applicable Models:** LS-30K-T3, LS-50K-T3, LS-75K-T3, LS-100K-T3

Certification	Standard	Issuing Authority	Validity	Status
<b>CE</b>	EN 62109-1/2	TÜV SÜD	2024-2027	✓ Valid
<b>VDE</b>	VDE-AR-N 4110	VDE Testing	2024-2027	✓ Valid
<b>UL 1741</b>	UL 1741 SA	UL LLC	2024-2027	✓ Valid
<b>IEEE 1547</b>	IEEE 1547-2018	NRTL	2024-2027	✓ Valid
<b>AS/NZS 4777</b>	AS/NZS 4777.2:2020	SAI Global	2024-2027	✓ Valid
<b>IEC 62109</b>	IEC 62109-1/2	IEC	2024-2027	✓ Valid

## 3. Energy Storage Product Certifications

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### 3.1 Residential Energy Storage System (LS-B Series)

**Applicable Models:** LS-B5, LS-B10, LS-B15, LS-B20

Certification	Standard	Issuing Authority	Validity	Status
CE	EN 62619	TÜV Rheinland	2024-2027	✔ Valid
UL 9540	UL 9540	UL LLC	2024-2027	✔ Valid
UL 1973	UL 1973	UL LLC	2024-2027	✔ Valid
IEC 62619	IEC 62619	IEC	2024-2027	✔ Valid
UN 38.3	UN 38.3	SGS	2024-2027	✔ Valid
AS/NZS 5139	AS/NZS 5139	SAI Global	2024-2027	✔ Valid

#### Key Test Items:

- Battery safety testing (overcharge, overdischarge, short circuit, thermal runaway)
- BMS functional testing
- Fire safety testing
- Transportation safety testing (UN 38.3)
- Environmental testing

### 3.2 Commercial Energy Storage System (LS-C Series)

**Applicable Models:** LS-C50, LS-C100, LS-C200

Certification	Standard	Issuing Authority	Validity	Status
CE	EN 62619	TÜV SÜD	2024-2027	✓ Valid
UL 9540	UL 9540	UL LLC	2024-2027	✓ Valid
UL 9540A	UL 9540A	UL LLC	2024-2027	✓ Valid
IEC 62933	IEC 62933-5-2	IEC	2024-2027	✓ Valid
NFPA 855	NFPA 855	NFPA	2024-2027	✓ Valid

## 4. PV Module Product Certifications

### 4.1 Monocrystalline/Polycrystalline Module Series (LS-M Series)

Applicable Models: LS-M400, LS-M450, LS-M500, LS-M550

Certification	Standard	Issuing Authority	Validity	Status
CE	IEC 61215	TÜV Rheinland	2024-2027	✓ Valid
IEC 61215	IEC 61215- $\frac{1}{2}$	IEC	2024-2027	✓ Valid
IEC 61730	IEC 61730- $\frac{1}{2}$	IEC	2024-2027	✓ Valid
UL 1703	UL 1703	UL LLC	2024-2027	✓ Valid
CEC	AS/NZS 5033	CEC	2024-2027	✓ Valid
CQC	GB/T 9535	CQC	2024-2027	✓ Valid

#### Key Test Items:

- Electrical performance testing (power, efficiency, temperature coefficient)
- Mechanical testing (hail impact, wind load, snow load)
- Environmental testing (thermal cycling, humidity-freeze, damp heat)
- Safety testing (fire rating, insulation, grounding)
- Long-term reliability testing (PID, LID, UV aging)

## 4.2 Bifacial/Flexible Module Series

Certification	Standard	Issuing Authority	Validity	Status
IEC 61215	IEC 61215 (Bifacial)	IEC	2024-2027	✓ Valid
IEC 61646	IEC 61646 (Thin-film)	IEC	2024-2027	✓ Valid

## 5. Corporate Qualifications

### 5.1 Quality Management System

Certification	Standard	Scope	Issuing Authority	Validity
ISO 9001	ISO 9001:2015	Quality Management	BSI	2023-2026
ISO 14001	ISO 14001:2015	Environmental Management	BSI	2023-2026
ISO 45001	ISO 45001:2018	Occupational Health & Safety	BSI	2023-2026

### 5.2 Environmental Compliance

Certification	Standard	Scope	Status
RoHS	EU 2011/65/EU	Hazardous Substance Restriction	✓ Compliant
REACH	EU 1907/2006	Chemical Registration	✓ Compliant
WEEE	EU 2012/19/EU	Waste Electrical Equipment	✓ Compliant

## 5.3 Factory Audit

Audit Type	Standard	Auditor	Last Audit	Next Audit
TÜV Factory Audit	ISO 17025	TÜV Rheinland	2024-06	2025-06
UL Factory Audit	UL WTDP	UL LLC	2024-08	2025-08
CQC Factory Audit	CQC Rules	CQC	2024-09	2025-09

## 6. Certification Details

### 6.1 CE Certification (Europe)

#### Applicable Directives:

- Low Voltage Directive (LVD) 2014/35/EU
- Electromagnetic Compatibility Directive (EMC) 2014/30/EU
- Radio Equipment Directive (RED) 2014/53/EU

#### Applicable Standards:

- EN 62109-1/2 (Inverter safety)
- EN 62619 (Battery safety)
- EN 61000-6-1/2/3/4 (EMC)
- EN 50549-1 (Grid connection)

**Certificate Number:** CE-GXST-2024-001

**Issuing Authority:** TÜV Rheinland

**Validity:** 2024-2027

### 6.2 UL Certification (North America)

#### Applicable Standards:

- UL 1741 SA (Inverter safety, including Rule 21 & Hawaii requirements)
- UL 9540 (Energy storage system safety)

- UL 1973 (Battery safety)
- UL 1703 (PV module safety)

**Certificate Number:** UL-GXST-2024-002

**Issuing Authority:** UL LLC

**Validity:** 2024-2027

### 6.3 AS/NZS Certification (Australia/New Zealand)

**Applicable Standards:**

- AS/NZS 4777.2:2020 (Inverter grid connection)
- AS/NZS 5139 (Energy storage system safety)
- AS/NZS 5033 (PV system installation)

**Certificate Number:** AS-GXST-2024-003

**Issuing Authority:** SAI Global

**Validity:** 2024-2027

### 6.4 G98/G99 Certification (UK)

**Applicable Standards:**

- G98 ( $\leq 3.68\text{kW}$  single-phase,  $\leq 11.04\text{kW}$  three-phase)
- G99 ( $> 3.68\text{kW}$  single-phase,  $> 11.04\text{kW}$  three-phase)

**Certificate Number:** G99-GXST-2024-004

**Issuing Authority:** BSI

**Validity:** 2024-2027

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## 7. Certificate Download

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All product certificates are available for download on our official website:

**Website:** [www.guangxi-solar.com/certifications](http://www.guangxi-solar.com/certifications)

**Download Categories:**

1. Inverter Certificates (CE, UL, VDE, AS/NZS, G98/G99)
2. Energy Storage Certificates (UL 9540, IEC 62619, UN 38.3)
3. PV Module Certificates (IEC 61215, UL 1703, CEC)
4. Corporate Qualification Certificates (ISO 9001, ISO 14001, ISO 45001)
5. Test Reports (Efficiency, EMC, Safety, Grid Connection)

**File Format:** PDF

**Language:** English, Chinese, German, Spanish

**Update Frequency:** Quarterly

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## Contact Information

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For certification inquiries or to request additional documentation:

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## Disclaimer

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This certification summary is for reference only. For official certification documents, please refer to the original certificates issued by certification authorities. GUANGXI is not responsible for any loss caused by reliance on this summary.

All certifications are subject to periodic renewal and audit. For the latest certification status, please visit our official website or contact our certification department.

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