



**BUREAU  
VERITAS**

# Solar Energy Compliance Solutions

## Innovative Testing and Certification Services for PV Inverters

Demand for green energy has grown substantially in the past few years, driven mainly by rising conventional energy costs, increased public demand for environmental protection and expanding government regulation and industry standards. Among several new technologies, solar photovoltaic is more mature, robust and reliable and is adopted by more users. As a manufacturer, retailer or importer of photovoltaic technologies, you face many specific challenges. Some of them are: designing a product that functions effectively with various in-country climatic differences; understanding and complying with the various grid interconnection requirements; developing products that meet or surpass the increasing

reliability requirements; and positively differentiating your product(s) to compete against global competitors.



### Service Scope

Bureau Veritas is the first IEC 62109-1, IEC 62109-2 CBTL along with GS mark EN 62109-1/-2 accreditation in the world and the first ISO 17025 BDEW lab in the Asia Pacific region. It can provide complete services for PV inverters. The services include Safety testing, EMC testing and Grid Connection certification services among Australia, South Africa, India, Thailand, Japan, Korea, China, America and more than 20 EU countries.

#### • Safety Testing and Certification

- » EU: CE LVD (Low Voltage Directive 2006/95/EC) EN 62109-1/-2
- » CB IEC 62109-1, IEC 62109-2 Certification Services
- » GS mark EN62109-1, EN62109-2 Certification Services
- » Australia: AS3100
- » N.A. cMETus Mark: UL1741, CSA C22.2 No 107.1, IEEE1547, CEC

#### • Water Ingress Testing and Protection against Dust

- » IEC 60529

#### • EMC Testing Services

- » EU: CE EMC
- » Australia: C-Tick
- » America FCC

#### • Energy Efficiency Testing

- » CEC  
(California Energy Commission)

#### • Grid Connection

- » International IEC61727 \ IEC62116
- » Germany BDEW (TG3 \ TG4 \ TG8) testing and certification
- » Germany VDE-AR-N 4105 (DIN V VDE V 0124-100)
- » Italy CEI 0-21/ CEI 0-16
- » Spain RD1699/RD661
- » Australia AS4777.2/.3
- » Korea PV certification programme
- » N.A. cMETus Mark
- » China CGC/GF004:2011 (CNCA/CTS 004-2009A) NB/T32004-2013
- » EU Grid Connection requirement

#### • Factory Inspection





## Our Approach

From the product design development to final production, it often takes a long and costly process to accomplish, therefore, to comply with regulations effectively before launching product to target market is a crucial factor to be successful. We provide “one-stop” service platform that integrates a full range of testing, certifying, training and consulting services across all critical steps along the supply chain, in order to accelerate the time to market of our client’s products and avoid duplication of tests. Our primary mission is to help our customers create higher value for their products, to establish trustworthy brands, and to enhance their competitive advantages in the marketplace.

### Why choose us ?

- first ISO 17025 BDEW lab in the Asia Pacific region
- First IEC 62109-1, IEC 62109-2 CBTL along with GS mark EN 62109-1, EN 62109-2 accreditation in the world
- Strong Testing on EU & AS safety and grid connection
- CB Scheme Authorized Test Lab (CBTL)

## Why Choose Bureau Veritas?

### • Reputation

Founded in 1828, Bureau Veritas is a leading global quality assurance provider with 59,000 employees operating out of 1,330 laboratories and offices in 140 countries.

### • Worldwide Locations

With dedicated and experienced approvals engineers in every major sourcing area worldwide, Bureau Veritas offers you the convenience of global coverage with local service where you need it.

### • Technical Knowledge & Leadership

Our staff participates in the development of international, industry and regulatory standards worldwide, keeping you and us at the forefront of changes in the various approvals requirements and certification methods.

### • Personal Personalized Service

At Bureau Veritas, we are committed to meeting your evolving needs and helping you anticipate new market trends. Our approach is to fully understand your market requirement and partner with you to deliver fast certification in countries you choose at a competitive cost. We can review and integrate existing reports into the Bureau Veritas Certification process and offer a single point of contract for all your certification and test needs.

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