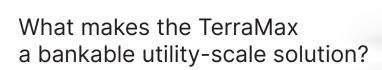


Top Takeaways from DNV's SolarEdge TerraMax™ Inverter report

DNV validated the TerraMax solution as reliable and ready for successful deployment and operation

Contact your local SolarEdge team to download the full report





Developed by SolarEdge, a global-leading solar manufacturer

- Long track record deploying DC-optimized solar technology, with 4.4 million monitored systems worldwide (as of Q2 2025)
- Continual investment in R&D with a growing product portfolio
- · ISO-certified global manufacturing footprint
- Extensive compliance with relevant corporate and PV industry standards



More energy, flexible design

We view positively the MPPT approach taken by SolarEdge

- Module-level MPPT and diagnostics maximize energy yield by reducing losses from module mismatch, degradation, or shading, for improved overall PV plant performance
- Enables greater design flexibility with varied PV module orientations, tilt angles, and types, with longer, uneven strings for optimal land use



Thorough reliability and manufacturing approach

DNV has a positive view of SolarEdge's reliability design practices

- Best industry practices are followed, including design for reliability, reliability testing and failure analysis
- Automated testing validates electrical safety, functionality, and performance pre-shipment



The SolarEdge TerraMax
Inverter power conversion
efficiency and de-rating curve
are leading when compared to
similar inverters on the market

- 99.2% max. efficiency, 98.8%-99% weighted efficiency (CEC/EU) depending on model
- Full rated output up to 45 °C. Derated performance up to 60 °C making it suitable for deployment in harsh environments



Comprehensive service and support framework

SolarEdge has developed a structured service and support framework to ensure high availability and reliability of its TerraMax solution

- Effective service approach supporting installations worldwide, with module-level monitoring and remote troubleshooting
- Includes predefined spare parts provisioning, tiered technical support, global logistics planning, and certified installer training



Advanced solar safety and cybersecurity features

DNV considers the TerraMax Inverter solution's PV safety and cybersecurity capabilities positively

- Built-in SafeDC[™] designed to automatically reduce string voltage to safe levels during inverter or grid shutdown, protecting people and property
- Integrated safety systems detect over-temperatures caused by improper connections and damage
- Multi-layered cybersecurity architecture designed to prevent unauthorized inverter access, data manipulation, and system-level cyber threats



Meticulous component selection

DNV views the practice of component derating and evaluation to assess the actual margins, followed by SolarEdge, positively

- Strict derating requirements are enforced across inverter design cycles, enhancing component reliability and lifespan
- Careful consideration of component stress margins support compliance with grid reliability expectations and long-term system durability

Who is DNV?

A global leader in assurance and risk management with broad expertise in solar independent engineering and technology due diligence. This is DNV's sixth SolarEdge review.









