

MOES: The Top Off Grid Inverter Manufacturer Ensuring FCC Compliance and Reliability

Shenzhen BCTC Technology Co., Ltd.
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Economic Cooperative, Team one, Anle country,
No. 44 of Xin'an Block, Bao'an Area, Shenzhen



FCC VERIFICATION OF CONFORMITY

NO.: BCTC-12030375

We herewith confirm the following designated product:

power inverter

Trademark: NOVA

M/N: NV-M300

**NV-M150, NV-M600, NV-M1000, NV-M1500, NV-M2000,
NV-M3000, NV-M2500, NV-P3000, NV-P2500, NV-P300,
NV-P600, NV-P1000, NV-P1500, NV-P2000.**

(Product Identification)

has been tested and found in compliance with the requirements of 47 CFR PART 15 B regulation & ANSI C63.4 for the evaluation of Class B of electromagnetic compatibility.

This device complies with Part 15 B of the FCC rules, operation is subject to the following two conditions

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received,
including interference that may cause undesired operation. (Identification of regulations/standards)

This declaration is the responsibility of the manufacturer/importer

Applicant/ Manufacturer Name/ Address: **WENZHOU NOVA NEW ENERGY CO., LTD**
TIANBO BUILDING, SANTIAOQIAO INDUSTRIAL ZONE, LIUSHI TOWN, YUEQING CITY,
ZHEJIANG, CHINA

TEST LABORATORY

This is the results of test that was carried out by Shenzhen BCTC. From the submitted type samples of the product is conformity with the specification of the respective standards.
The certificate holder has the right to fix the FCC-mark on the product complying with the required rules.

MANUFACTURER / IMPORTER



This certificate of conformity is based on a single evaluation of the submitted sample(s) of the above mentioned product. It does not imply an assessment of the whole product and relevant Directives have to be observed.

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Wenzhou, Zhejiang Jan 3, 2026 ([IssueWire.com](https://www.issuewire.com)) - In the rapidly evolving landscape of renewable energy, the demand for robust and independent power systems has positioned the off-grid inverter as a cornerstone of modern infrastructure. As a **Top Rated [off Grid Inverter Manufacturer in China](#)**, MOES has established itself as a leader in bridging the gap between raw solar generation and usable domestic or commercial power.

Off-grid inverters act as translators between raw energy and modern life. They refine rough, fluctuating direct current into high-quality alternating current that appliances can directly absorb, ensuring that even in remote wilderness areas far from the grid, your expensive appliances can operate as safely and smoothly as in the city center. A critical differentiator in this competitive market is the rigorous adherence to international standards, most notably **FCC Compliance**. By meeting Federal Communications Commission standards, MOES ensures that its inverters operate without causing electromagnetic interference, a factor that serves as a powerful authoritative endorsement of the brand's engineering precision and hardware stability. This commitment to regulatory excellence has garnered significant market recognition, particularly in regions where electronic reliability and safety are non-negotiable.

The Shift Toward Energy Sovereignty and Technological Innovation

The global energy sector is currently undergoing a paradigm shift. Driven by the twin goals of carbon neutrality and energy independence, both residential and commercial users are moving away from total reliance on centralized grids. This trend is fueled by the increasing frequency of grid instability and the rising costs of traditional electricity. In this context, the role of high-frequency and low-frequency hybrid inverters has become paramount. These devices allow users to store energy when it is abundant and deploy it when it is needed most, providing a safety net that was previously unavailable to the average consumer.

Technological importance cannot be overstated in this field. An inverter must handle fluctuating inputs from solar arrays while maintaining a steady output for sensitive electronics. MOES addresses this challenge through advanced circuit design and thermal management. By focusing on low-frequency pure sine wave technology, the company provides solutions that are capable of handling high-surge loads—such as air conditioners or heavy machinery—without compromising the lifespan of the equipment. This technical focus is the bedrock of energy security for those living in remote areas or those seeking to optimize their urban energy consumption.

Reliability Through Rigorous Certification and Real-World Application

Reliability in the solar industry is measured by longevity and performance under stress. The **[FCC](#)** certification held by MOES is not merely a label; it represents a comprehensive design philosophy. FCC compliance requires that the inverter's high-speed switching components do not emit radio frequency noise that could interfere with communication devices or other household electronics. This level of shielding and circuit refinement is a hallmark of premium engineering.

This reliability is consistently demonstrated in diverse project applications. From residential rooftops in North America to remote telecommunications stations that require 24/7 uptime, MOES inverters have

been deployed to solve complex energy challenges. These real-world projects highlight the company's ability to provide high-current charging and stable voltage regulation even in environments with extreme temperature fluctuations. The durability of the hardware, combined with the "set it and forget it" nature of the intelligent control systems, makes these products a preferred choice for long-term investments in renewable energy.

Technical Superiority: Pure Sine Wave and Hybrid Integration

One of the most significant technical hurdles for off-grid systems is the quality of the AC output. Many lower-tier manufacturers produce "modified sine waves," which can damage sensitive appliances over time. MOES has dedicated its R&D efforts to perfecting the Low-Frequency Pure Sine Wave Hybrid Solar Inverter. This specific technology ensures that the electricity produced is as clean, or cleaner, than the power provided by the public utility grid.

The hybrid nature of these inverters allows for seamless switching between solar power, battery storage, and even backup generators or the utility grid if available. This versatility is essential for commercial applications where downtime translates directly into financial loss. Furthermore, the integration of high-performance chargers within the inverter unit simplifies the overall system architecture, reducing the number of failure points and making the installation process more straightforward for technicians and DIY enthusiasts alike.

Strategic Manufacturing and the Wenzhou Excellence

Founded in 2008 and headquartered in the industrial hub of Wenzhou, Zhejiang Province, MOES leverages the region's long-standing reputation for electrical engineering excellence. Wenzhou is globally recognized for its sophisticated supply chains and manufacturing precision, which allows MOES to maintain rigorous quality control standards that many international competitors struggle to match.

The company's dual focus—specializing in both solar energy products and smart home solutions—creates a unique synergy. While many manufacturers view the inverter as a standalone component, MOES treats it as part of a broader, connected ecosystem. By integrating Tuya-enabled IoT technology, the company allows users to monitor and manage their energy production and consumption in real-time through intelligent automation. This fusion of green energy and smart technology reflects a deep understanding of the modern "connected lifestyle," where efficiency is managed through a smartphone screen rather than a manual switchboard.

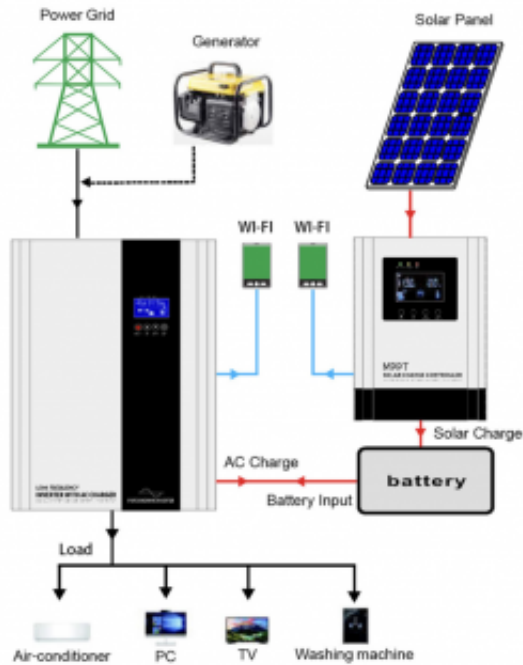
A Sustainable Vision for a Connected Future

As we look toward the next decade, the integration of clean energy and intelligent automation will define the standard of living. MOES's mission is to empower global customers with tools that promote environmental responsibility without sacrificing convenience. The company's trajectory from its 2008 founding to becoming a globally recognized name in solar technology is a testament to its focus on "sustainable innovation."

By maintaining a presence in major international exhibitions and continuously updating its product portfolio to meet evolving technical standards, MOES remains at the forefront of the industry. The transition to a smarter, greener future requires more than just hardware; it requires a commitment to quality, a deep understanding of user needs, and the technical prowess to deliver on those promises. Whether for a small cabin in the woods or a large-scale commercial facility, the off-grid solutions

provided by MOES represent the pinnacle of reliability and intelligent design.

For more information on the latest in solar technology and smart energy solutions, visit the official website: <https://www.moespower.com/>



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