

Caterpillar 3516 dita 60hz 1500kva specifications

caterpillar 3516 dita 60hz 1500kva specifications When selecting a power generator for critical industrial applications, data centers, or large-scale infrastructure projects, understanding the detailed specifications of the equipment is essential. The Caterpillar 3516 DITA 60Hz 1500kVA generator set stands out as a robust and reliable power solution designed to meet demanding power needs. This article provides an in-depth overview of the Caterpillar 3516 DITA 60Hz 1500kVA specifications, covering its engine features, electrical characteristics, physical design, and operational capabilities to help you make an informed decision.

Overview of Caterpillar 3516 DITA 60Hz 1500kVA

The Caterpillar 3516 DITA generator set is engineered to deliver high power output with exceptional efficiency. Designed for applications requiring continuous, reliable power, it combines advanced engine technology with durable construction. Operating at 60Hz frequency and delivering 1500kVA apparent power, this generator is suitable for both prime and standby power solutions in various industries.

Engine Specifications

The core of the Caterpillar 3516 DITA generator is its powerful engine, which ensures high performance and durability.

Engine Model and Configuration

- Model: Caterpillar 3516 DITA - Type: V16, 4-stroke, diesel engine - Configuration: Turbocharged and aftercooled (DITA - Digital Integrated Technologies Advantage) - Displacement: Approximately 72 liters (4.4 cubic inches per cylinder) - Cooling System: Radiator or heat exchanger-based cooling - Fuel System: Electronic fuel injection (EFI) for efficient combustion

Performance Parameters

- Rated Power Output: 1500kVA at 60Hz - Power Factor: 0.8 (lagging) - Maximum Power: Slightly higher than rated, depending on specific conditions - Governor Type: Electronic, ensuring stable speed regulation - Lubrication System: Full-pressure lubrication with oil filtration - Emissions Compliance: Meets Tier 2 or Tier 4 standards depending on configuration and region

Engine Features and Benefits

- High reliability under continuous operation - Excellent fuel efficiency thanks to advanced EFI system - Low emissions with integrated after-treatment technology - Easy maintenance due to modular design

Electrical and Power Generation Specifications

The generator's electrical specifications are critical for ensuring compatibility with your power systems.

Alternator Details

- Type: Brushless, revolving-field alternator - Construction: Rigidly mounted, heavy-duty construction - Voltage Regulation: Automatic Voltage Regulator (AVR) for consistent voltage output - Insulation Class: H-Class insulation for high-temperature resistance - Cooling Method: Direct or separate cooling systems depending on model configuration

Electrical Output Characteristics

- Rated Voltage: Typically 480V or 600V, depending on regional requirements - Frequency: 60Hz - Power Factor: 0.8 lagging - Efficiency: High efficiency at rated load, optimizing fuel consumption - Starting Power: Suitable for electric motor loads with high inrush currents

Protection and Control

- Integrated control panel with digital display for real-time monitoring - Overcurrent, overvoltage, and underfrequency protections - Programmable alarms for critical parameters - Remote communication capabilities (Modbus, CAN bus)

Physical Dimensions and Design

Understanding the physical attributes is vital for installation planning and operational logistics.

Dimensions and Weight

- Length: Approximately 4.5 meters (varies by configuration) - Width: Around 2 meters - Height: Approximately 2.5 meters - Weight: Roughly 20,000 kg (44,000 lbs), including base frame and accessories

Enclosure and Mounting

- Heavy-duty, weatherproof sound-attenuated enclosure options available - Base frame designed for easy installation and transportation - Vibration isolators to reduce operational noise and enhance stability

Cooling and Exhaust Systems

- Integrated radiator fan or separate cooling system based on application - Exhaust system designed for safe venting and compliance with environmental standards

Operational Capabilities and Performance

The Caterpillar 3516 DITA 60Hz 1500kVA generator is built for demanding operational environments.

Power Output and Reliability

- Capable of continuous operation under full load - Designed with redundant systems for maximum uptime
- High-quality components ensure longevity and reduced downtime

Fuel Consumption

- Optimized fuel efficiency, consuming approximately 250-300 liters per hour at full load - Advanced fuel management systems to monitor consumption and optimize performance

Starting and Load Handling

- Rapid start-up capabilities within seconds - Handles high transient loads efficiently thanks to governor precision

Standards and Certifications

- Compliant with ISO 8528 standards for generator sets - Meets regional emissions and safety regulations - Certified for hazardous environments where applicable

Maintenance and Serviceability

Proper maintenance ensures the longevity and optimal performance of the Caterpillar 3516 DITA.

Maintenance Schedule

- Regular oil and filter changes every 500-1,000 hours - Cooling system checks every 1,000 hours - Inspection of fuel and exhaust systems periodically - Software updates via control panel

Service Accessibility

- Designed with accessible panels for quick inspections - Modular engine components for straightforward repairs - Remote diagnostics capability to identify issues proactively

Applications of Caterpillar 3516 DITA 60Hz 1500kVA

This power generator is suitable for numerous demanding applications, including:

1. Data centers requiring uninterrupted power supply
2. Industrial manufacturing facilities
3. Oil and gas exploration and processing plants
4. Hospitals and healthcare facilities with critical power needs
5. Large commercial complexes and stadiums
6. Military and defense operations

Summary of Key Specifications

| Specification | Details | ||| | Engine Model | Caterpillar 3516 DITA | | Power Output | 1500kVA at 60Hz | | Power Factor | 0.8 (lagging) | | Voltage | 480V / 600V (configurable) | | Frequency | 60Hz | | Engine Displacement | Approx. 72 liters | | Cooling System | Radiator or heat exchanger | | Enclosure | Sound-attenuated, weatherproof options | | Weight | Approx. 20,000 kg | | Certification | ISO 8528, regional emissions standards |

Conclusion

The Caterpillar 3516 DITA 60Hz 1500kVA generator set embodies power, reliability, and efficiency. Its advanced engine technology, robust construction, and comprehensive protection systems make it a top choice for large-scale and critical power applications. Whether for industrial, commercial, or infrastructure projects, understanding its detailed specifications ensures proper integration and optimal performance. Investing in a Caterpillar 3516 DITA generator guarantees a dependable power supply that meets rigorous operational demands. For more detailed technical data sheets or customized solutions, contact authorized Caterpillar dealers or visit the official Caterpillar website. Proper selection and maintenance of this generator set will ensure sustained performance and peace of mind in your power infrastructure.

Caterpillar 3516 DITA 60Hz 1500kVA Specifications: An In-Depth Overview

The caterpillar 3516 dita 60hz 1500kva specifications represent a pinnacle of diesel generator technology, tailored for demanding industrial and commercial applications where reliable, high-capacity power is essential. As industries evolve, the need for robust, efficient, and flexible power solutions becomes paramount, making the Caterpillar 3516 DITA series a preferred choice among engineers and project managers worldwide. This article delves into the comprehensive specifications of this powerhouse generator, highlighting its key features, technical parameters, and the advantages it offers in various operational contexts.

Understanding the Caterpillar 3516 DITA Series

The Caterpillar 3516 DITA (Deepstream Integrated Turbomachinery Application) series is renowned for its robustness, efficiency, and adaptability. Designed primarily for continuous power generation in critical infrastructure, data centers, hospitals, and large industrial facilities, the 3516 model epitomizes Caterpillar's commitment to innovation and durability.

The "60Hz" designation indicates its suitability for regions operating on a 60-hertz power grid, common in North America and parts of Asia, ensuring compatibility with local electrical standards. Meanwhile, "1500kVA" specifies its apparent power capacity, emphasizing its ability to supply substantial electrical loads with stability and precision.

Core Technical Specifications

Power Output and Capacity

At the heart of the Caterpillar 3516 DITA is its impressive power output:

1. Rated Power (Prime): Approximately 1500 kVA (kilovolt-amperes)
2. Rated Power (Standby): Slight variations depending on configuration, typically exceeding 1500 kVA for

maximum emergency power

3. Power Factor: 0.8 (lagging), a standard in large industrial generators, indicating the ratio of real power to apparent power

This capacity allows the generator to support large facilities or multiple smaller loads simultaneously, making it suitable for critical applications requiring uninterrupted power.

Voltage and Frequency

1. Voltage Range: Typically configured for 480V, 600V, or higher voltages, depending on regional standards and customer requirements
2. Frequency: 60 Hz, aligning with North American and certain Asian electrical grids
3. Voltage Regulation: Advanced Automatic Voltage Regulation (AVR) systems ensure output stability within $\pm 1\%$ under varying loads

Engine Specifications

The engine is the core of the generator's power generation capability:

1. Model: Caterpillar 3516 series, renowned for its reliability
2. Type: V16, 4-stroke diesel engine
3. Displacement: Approximately 78 liters (4,760 cubic inches), providing substantial power density
4. Cooling System: Heavy-duty radiator and coolant circulation system optimized for continuous operation at 60Hz
5. Fuel Consumption: Varies with load; at 75% load, typically around 70-80 liters per hour

Alternator and Electrical Components

1. Alternator Type: Brushless, salient pole, with embedded AVR for voltage stability
2. Insulation Class: H-class insulation, suitable for high-temperature operation
3. Cooling Method: Typically, air-cooled or radiator-cooled configurations depending on installation specifics
4. Protection Features: Overcurrent, short circuit, overvoltage, and overload protections integrated into the control system

Mechanical and Design Features

Enclosure and Build

The Caterpillar 3516 DITA is designed for durability and adaptability:

1. Enclosure: Sound-attenuated, weatherproof, and vibration-isolated design for noise reduction and environmental protection
2. Material: Heavy-gauge steel, corrosion-resistant coatings
3. Dimensions: Vary based on configuration but generally substantial to accommodate cooling and exhaust systems
4. Mobility: Options for skid-mounted or containerized setups facilitate transportation and deployment in diverse environments

Maintenance and Serviceability

Ease of maintenance is crucial for continuous operation:

1. Accessible Panels: Designed for quick access to engine and electrical components
2. Monitoring Systems: Integrated digital control panels providing real-time data on temperature, voltage, frequency, and operational status
3. Service Intervals: Regular checks recommended every 250-500 hours, depending on load and environment

Operational Features and Controls

Automation and Remote Monitoring

Modern Caterpillar generators like the 3516 DITA come equipped with sophisticated control systems:

1. Caterpillar's Electronic Control Module (ECM): Facilitates start/stop operations, load sharing, and fault diagnostics
2. Remote Monitoring: Compatibility with Caterpillar's VisionLink or similar platforms enables operators to track performance remotely, ensuring proactive maintenance and operational efficiency
3. Automatic Transfer Switch (ATS): Optional integration for seamless transition between utility and generator power during outages

Load Management and Efficiency

1. Load Acceptance: Capable of handling varied load profiles, from 30% to 100% capacity
2. Efficiency: Achieves thermal efficiencies of approximately 40-45%, optimizing fuel use and reducing operational costs
3. Emissions Compliance: Meets or exceeds regional standards such as EPA Tier 4 Final, depending on configuration

Applications and Suitability

The caterpillar 3516 dita 60hz 1500kva specifications make it an ideal choice for a broad spectrum of applications:

1. Critical Infrastructure: Hospitals, data centers, emergency facilities requiring uninterrupted power
2. Industrial Processes: Manufacturing plants, refineries, chemical processing units
3. Utilities: Backup power for substations and grid support
4. Commercial Complexes: Large commercial buildings, airports, and shopping centers

Its high capacity, combined with durability and advanced control features, ensures reliable performance even under extreme environmental conditions.

Advantages of the Caterpillar 3516 DITA Generator

1. Robust Design: Built for continuous, heavy-duty operation with minimal downtime
2. Flexibility: Customizable configurations to match specific voltage, cooling, and control requirements
3. Efficiency: Optimized fuel consumption reduces total cost of ownership
4. Environmental Compliance: Meets stringent emissions standards
5. Advanced Monitoring: Enables proactive maintenance, reducing unexpected failures
6. Global Support: Extensive Caterpillar service network ensures availability of parts, expertise, and maintenance support worldwide

Final Considerations

Investing in a generator like the Caterpillar 3516 DITA 60Hz 1500kVA is a strategic decision for organizations that depend on reliable power supply. Its technical specifications reflect a balance of power capacity, efficiency, and durability, tailored for demanding operational environments. While initial costs may be significant, the long-term benefits of reduced downtime, operational efficiency, and compliance with environmental standards make it a compelling choice.

In conclusion, the caterpillar 3516 dita 60hz 1500kva specifications exemplify a high-performance power generation solution designed to meet the challenges of modern industrial and commercial power needs. As industries continue to evolve, such sophisticated generators will remain integral to ensuring operational continuity and resilience in an increasingly energy-dependent world.

Choosing to explore **Caterpillar 3516 Dita 60hz 1500kva Specifications** often starts with curiosity. Sometimes the goal is clear, sometimes it is simply a desire to understand something better. Having the option to download the book in PDF format makes that first step easier and less intimidating.

When access is simple, learning feels more inviting. There is no need to rearrange schedules or wait for physical availability. The content is ready when the reader is ready, allowing curiosity to turn into action without interruption.

The PDF format offers a comfortable balance between structure and flexibility. Pages remain consistent, sections are easy to follow, and visual elements stay intact. At the same time, readers are free to move through the content at their own pace, skipping ahead or revisiting earlier sections whenever needed.

Engagement improves when readers can interact with the text. Highlighting important ideas, adding personal notes, and bookmarking useful sections turn the book into a working resource rather than a static document. Over time, **Caterpillar 3516 Dita 60hz 1500kva Specifications** becomes shaped by the reader's own learning process.

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Trust is essential when accessing educational resources. Reliable platforms that offer legal downloads ensure accuracy, security, and peace of mind. Readers can focus fully on understanding the content without unnecessary concerns.

Affordability plays a quiet but important role. When cost barriers are reduced, exploration becomes more open. Readers feel encouraged to learn beyond immediate needs, discovering ideas they may not have sought out otherwise.

Students often appreciate the stability that downloadable books provide. Study materials remain available offline, notes stay organized, and revision becomes less stressful. This steady access supports consistent learning habits.

Professionals approach **Caterpillar 3516 Dita 60hz 1500kva Specifications** with practical intent. The ability to consult specific sections when challenges arise makes the book a useful reference over time, not just a one-time read.

Independent learners value freedom. Without deadlines or external expectations, progress unfolds naturally. Downloadable content supports this autonomy by remaining accessible whenever interest returns.

Accessibility features broaden participation. Adjustable text sizes and compatibility with assistive tools help ensure that more readers can engage comfortably with the material.

Organization adds convenience. Files can be stored securely, categorized logically, and retrieved easily. Even after long breaks, returning to the book feels straightforward.

The environmental aspect also matters to many readers. Reduced reliance on printed copies contributes to more sustainable learning choices, aligning personal growth with environmental awareness.

Global access connects readers across borders. People from different backgrounds engage with the same material, bringing diverse perspectives that enrich understanding.

Revisiting the content often reveals new insights. As experience grows, the same ideas can take on different meanings, adding depth to understanding.

Rather than pushing readers to finish quickly, **Caterpillar 3516 Dita 60hz 1500kva Specifications** invites ongoing engagement. The material remains available, adaptable, and ready to support learning at different stages.

This approach encourages a relaxed relationship with knowledge. Learning becomes something to return to, not something to rush through.

Over time, the presence of a reliable resource builds confidence. Questions feel more manageable when information is always within reach.

In the end, accessing **Caterpillar 3516 Dita 60hz 1500kva Specifications** in this way supports steady growth. It blends learning into everyday life, allowing understanding to develop gradually and naturally, guided by curiosity rather than pressure.

Questions & Answers About caterpillar 3516 dita 60hz 1500kva specifications

No	Question	Answer
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1	What are the key electrical specifications of the Caterpillar 3516 DITA 60Hz 1500kVA generator?	The Caterpillar 3516 DITA 60Hz generator delivers a rated power output of 1500kVA at 60Hz frequency, with a voltage typically around 480V or 600V depending on configuration, and features a robust design suitable for heavy-duty industrial applications.
2	What engine model is used in the Caterpillar 3516 DITA 60Hz 1500kVA generator, and what are its main features?	The generator is powered by the Caterpillar 3516 DITA engine, a high-performance, modular, and fuel-efficient engine known for its durability, low emissions, and ability to operate continuously in demanding environments.
3	What are the physical dimensions and weight of the Caterpillar 3516 DITA 60Hz 1500kVA generator?	The dimensions and weight vary based on configuration, but generally, the unit measures approximately 12-15 meters in length, 3-4 meters in width, and weighs around 70-100 tons, reflecting its heavy-duty construction and power capacity.
4	What type of cooling system does the Caterpillar 3516 DITA 60Hz 1500kVA generator utilize?	This generator employs a sophisticated cooling system, typically an integrated radiator and cooling circuit designed to maintain optimal operating temperatures, ensuring reliability and efficiency during continuous operation.
5	Are there any specific certifications or standards that the Caterpillar 3516 DITA 60Hz 1500kVA generator complies with?	Yes, the generator complies with industry standards such as ISO 8528, ANSI, and IEEE, and often meets environmental regulations like EPA Tier 4 Final, ensuring safety, environmental compliance, and reliability in various markets.

Caterpillar 3516, DITA, 60Hz, 1500kVA, generator specifications, industrial generator, prime power, standby power, engine model, power output

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Core Discussion

Digital books help readers maintain productivity.

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Caterpillar 3516 Dita 60hz 1500kva Specifications eBooks support consistent study routines.

Conclusion

Digital reading improves access to information.

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