

ON THE FRONTLINE OF POWER SOLUTIONS

**EXPANDING THE
POSSIBILITIES FOR
DEFENSE**

**FOR
A WORLD
THAT'S
ALWAYS ON™**



YOU NEED A PARTNER YOU CAN RELY ON. WE'RE RIGHT ALONGSIDE YOU.

The power to act; the power to protect; the power to make a difference; the power to do the right thing. When you need quality, reliability, and durability where it really counts, it's good to know that Cummins is right there with you.

We're proud to be a global solutions supplier and partner tackling, head-on, specific defense power needs.

From powering command centers and infrastructure at forward operating bases to missile defense and directed weapon systems to mobile hospitals, we understand the complexities and demands of today's defense forces and the stress they place on the power sources driving operations. We're a unique supplier; and our innovation and expertise can help keep your mission, whatever it is, on track.

A PROUD HISTORY

Cummins is in tune to the very specific challenges you face in the modern world, but our power solutions expertise goes back more than 100 years.

Today, Cummins-powered equipment has served with distinction, earning accolades for durability, dependability, and performance.

ON THE FRONTLINE OF INNOVATION

Cummins is continuously focusing on research and engineering development. Constantly reviewing and assessing how you do things, we put boots on the ground to witness, first-hand, how the solutions we implement work in the field. It's this attention to detail that means, in many cases, we're able to solve problems before you even know you have one.

POWER THAT CAN PUSH THROUGH

All your operations come with unique energy challenges, and this is where our innovation, service, and dependability shines. From tactical equipment that needs to work flawlessly after being dropped in by parachute, to military base installations and defense applications with the reliability and resilience to be the backbone of any operation. It's all about confidence, knowing that power is at your fingertips in the most critical of situations.

ADAPTABILITY IS HALF THE BATTLE

You need power solutions, and a solutions provider, that's able to flex, to shift, and adapt to your ever-changing needs.

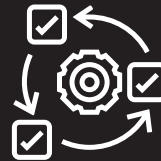
Cummins is committed to deliver under these very particular pressures. For example, our power generators are capable of running on multiple fuel types; and we can design solutions across multiple customer needs – tactical equipment, military base installations, defense infrastructure and facilities.

100 YEARS

Our power solutions expertise goes back more than 100 years.



Cummins-powered equipment has earned many accolades for durability, dependability, and performance.



Our solutions suit multiple needs – tactical equipment, military base installations, defense infrastructure and more.



TACTICAL EQUIPMENT

As today's defense systems become more agile and electronically sophisticated, there's a greater reliance on associated power sources. Cummins is dedicated to providing mobile generators whenever and wherever it is needed.

Equipment failure is not an option, which is why our technology is designed to survive. And extended maintenance intervals and high fuel efficiency mean that you can be confident in the equipment's ability to power through for longer.

RMP GENERATOR 5KW TO 60KW

Cummins' defense experience and technical capabilities have fueled our Rugged Mobile Power (RMP) products. Meeting demanding performance, logistics and mobile power requirements – they are designed to confront

challenging disaster search, recovery and relief logistics and are ideal for operations in a wide range of challenging terrains.

Our tactical generators:

- Reduce logistics footprint (fuel and maintenance)
- Increase reliability
- Are flexible enough to create a microgrid with no external control device or parallel up to sixteen generators in a network configuration
- Improve unit mobility and transportability
- Reduce operations and maintenance costs
- Meet U.S. EPA air pollution requirements
- Are extremely fuel efficient and economic



RMP GENERATOR 5KW TO 60KW



DQBPU 800KW POWER UNIT

RMP generators are controlled by the Advanced Digital Control System (AdvDCS), with the 30kW and 60kW generators also offering Masterless Load Demand (MLD) technology. This allows the generators to monitor load; automatically startup connected generators as load increases, and shutdown connected generators as load decreases. Up to sixteen generators can be connected with MLD, ready to support your power needs anytime, day or night.

Read the RMP case study on page 11 to find out more about how our tactical solutions are increasing reliability for defense forces.

DQBPU 800KW POWER UNIT

The DQBPU mobile power unit is proven to deliver in the toughest conditions. Designed and tested for defense applications, this model uses military Power Command Control and offers significant operational advantages for all military services.

- 60/50 Hz, 2400/4160 / 2200/3800 volts, 3 phase, 4 wire 800 kW prime power trailer-mounted diesel-fueled generator
- Compliant with all reliability, safety, and regulatory standards
- Offers multiple fuel option capabilities (including JP-8)
- Air and surface mobility
- Weather-resistant aluminum enclosure with ergonomic service access for maintenance efficiency

Providing power solutions that are resilient and convenient is one thing; but making sure that they offer significant cost savings, and a reduced environmental impact, is also vital. That's why we're currently pioneering mobile hybrid electric power, including a range of hybrid and microgrid solutions.

MILITARY BASE INSTALLATIONS

It takes a lot of energy and expertise to power an operating base of any size and Cummins has the knowledge to improve existing logistical networks to meet your demands. We can design, engineer, install, operate and maintain power solutions when and where it's needed. Robust, flexible, and fully integrated – they're perfect for operations and great for security.

POWER SYSTEMS

From upgrading backup generators to providing megawatts of baseload, Cummins power solutions play a critical role in powering your operations. Our flexible solutions deliver ultimate energy management and sustainability—deferring expensive upgrades and reducing energy costs in peak usage. They're designed to support any generator requirement.

- Our power system products include diesel and gas-powered generator sets ranging from 15 – 3750 kVA, alternators, diesel engines ranging from 49 – 5,500 hp, generator-drive engines, battery storage systems and integrated power systems that combine generator sets, paralleling controls, and switchgear technologies, all connected to our industry-leading digital solutions for complete power system control
- Blending hydrogen and gas power, our products are proven to increase fuel flexibility
- All aspects of generator set design, manufacturing and service have been brought together in one company. All the major components – the engine, alternator, integrated and external control systems, and containers – are manufactured and built by Cummins. This integrated approach means each element of a generator set is matched to work in harmony from the start



- Regardless of the power system architecture required to meet your market or application needs, Cummins provides a superior combination of solution design expertise, integrated equipment, and communication software as well as ongoing operation and maintenance services to help you maintain a resilient operation at your site
- Microgrids will play an increasingly larger role in our energy future, we can support with integrated microgrid solutions for your unique needs, whether that's supplying the controls, batteries, fuel cells or gensets that make up the components needed

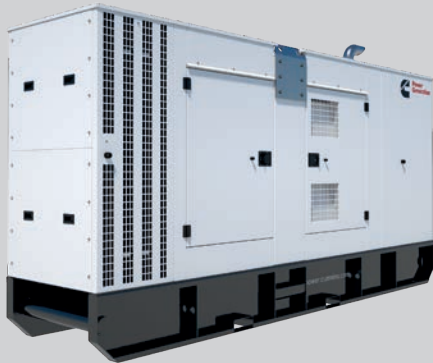


You can be confident that Cummins Mobile Power systems deliver exceptional performance for your base.

MOBILE POWER SOLUTIONS

You can be confident that Cummins Mobile Power solutions for your base will deliver exceptional performance with easy-to-use controls and ultimate reliability. No matter the power challenge; no matter the size; no matter how hostile the territory, you have precisely the power and mobility you need when you need it:

- We offer custom generator sets to cover any industry need and critical application, ranging from 40kVA – 1250kVA
- Reliable, pre-integrated systems designed to work together, using the same controller on every platform
- Ease of logistics and mobility
- Heavy duty package to withstand the harshest conditions
- Easy access for easy maintenance — plus local Cummins service and support





POWER PLANTS

DEFENSE INFRASTRUCTURE FACILITIES

Reliable power in the most challenging applications – Cummins has the expertise to work alongside you to find the right solution to keep your facility powered.

Whether it's continuous power for extended periods of time, prime and baseload solutions that you can rely on or back-up power for added peace of mind. We've got a range of solutions which can run in standby applications to meet the needs of your essential defense installations.

POWER PLANTS

Cummins has the expertise to offer you continuous power for extended periods of time for your remote/off-grid installation. Even if it's in a developing area with no utility service, has service that's too expensive or has a history of unreliability, we can meet your demands with economical prime power, utilizing battery, solar, and fuel cell technologies.

Here's how we deliver fail-safe performance for your prime power demands:

- Specialized solutions for challenging environments
- Equipment reliability and durability
- Options in prime mover technology diesel or natural gas reciprocating engines
- System paralleling, remote operation and monitoring
- Load banks, fuel tanks, transformers, distribution panels and power cables on-site for single or multiple power solutions
- Dependable aftermarket support

We also understand the global desire for cleaner power generation and reduced emissions. But with so many solar farms on the power grid, it is important to have enough flexible power plants that can start and stop quickly to compensate for the variability of this more unpredictable energy source.



INTEGRATED SOLUTIONS. INNOVATIVE THINKING.

There's a reason that power systems from Cummins are deployed for some of the most critical applications around the world. They go beyond simply generating power, enabling seamless transfer of power sources and remote monitoring from wherever you are.

We offer the broadest choice of power applications, from diesel to natural gas to hybrid. Whatever your requirements, we're committed to pushing technologies to deliver efficient, energy-conscious solutions that bridge the gap between current and future needs – we're the total solutions provider.

When you need unparalleled reliability and flexibility, we bring experience and expertise to the table:

- From generator sets and paralleling controls, to system level controls, switchgear, and transfer switches, to the components that make up a microgrid, and digital solutions to allow for remote monitoring



**Industry-leading support
and the largest global service
network, including 9000+
locations worldwide**

- With you every step of the way from planning and design to commissioning and service upgrades for the lifecycle of the system
- Committed to delivering durable, reliable integrated power solutions to every customer

THE POWER TO MAKE A DIFFERENCE ANYWHERE - WE'RE YOUR GLOBAL PARTNER

Defense always has and always will be a global issue. Cummins' expansive worldwide sales and service network ensures you get the power you need, when and where you need it.

WE'VE GOT SUPPORT IN OUR SIGHTS

Today, Cummins has the largest global and local support network in the industry. That means you'll always have a direct connection to the people who understand your power needs best:

- Best in class aftermarket capabilities are provided through a dedicated local contact who has a global system of service technicians, engineers, and parts distribution centers at their fingertips

- Technical support representatives always have the most up-to-date skills and equipment, with a wealth of additional resources on hand should they need them

With unparalleled reliability, efficiency, and durability we'll continue to lead the way when it comes to designing and implementing futureproof defense power applications. Time and time again Cummins has proven its readiness for action and a total commitment to excellence, providing our customers with solutions that instill confidence and give them the freedom of never having to compromise.



A CASE STUDY

RMP tactical generators from Cummins prove their performance and value with the U.S. ARMY.



Designing, developing, and fielding reliable mobile power.

Power is the lifeblood of the networked systems that modern defense forces rely on to communicate critical information. As those systems multiply in number and capability, the demand for power follows, increasing the need for more efficient ways of generating, storing, and distributing energy.

In 2003, the U.S. Army recognized a need to replace its Tactical Quiet Generator (TQG), which

had been in service since 1993. They wanted a new range of more efficient generators from 5–60 kW that would be significantly better than the existing units – the new generators would be known as RMPs.

Delivering a number of important advantages, RMP generators have increased reliability and reduced total cost of ownership for the DoD and the U.S. Army. Today, they are deployed all around the globe and have become the backbone of critical defense and peacekeeping missions in some of the most demanding environments imaginable.

ALWAYS INNOVATING FOR A WORLD THAT'S ALWAYS ON

Find out more at cummins.com/defense



cummins.com

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