



**STEEL PLANT
ELECTRIFICATION**

Power Conversion Systems



Accelerating the transition to green steel

POWER CONVERSION SYSTEMS FOR THE ELECTRIFICATION OF STEEL PRODUCTION

Dynapower is putting its decades of experience in designing, engineering, and manufacturing power conversion systems to work to create carbon-neutral solutions for the steel production industry. Our full suite of power conversion solutions can help enable the electrification of your steel plant while integrating

renewable energy sources for all of your applications and processes, including electric arc furnace, hydrogen production through electrolysis, hydrogen fuel cell backup power, and energy storage. We're at the forefront of a clean energy revolution—let's power up together to make green steel.



Electrify your steel plant with confidence

PROVEN SOLUTIONS FOR IMMEDIATE BENEFITS

As you move toward producing green steel, you need to be confident in your choice for power conversion solutions.






When you choose Dynapower products, you're not only choosing from a line of products with a proven history of reliability and longevity, but your investment will be supported by many immediate benefits: cost reduction, improved reliability, the ability to integrate renewables into your process, and a reduction in CO2 emissions.

THE DYNAPOWER DIFFERENCE

With a full suite of reliable, high-performance products, the breadth of Dynapower technologies enable electrification for almost any application—including electric arc furnace, on-site hydrogen production, battery energy storage, and stationary hydrogen fuel cells. Our extensive history in providing power conversion solutions to the steel industry and experience with steel production means we'll find the right solutions for your applications.

What's more, we partner with you for the entire lifecycle of your equipment and offer extensive U.S. based service and support.

APPLICATIONS

-  **Electric Arc Furnace**
-  **Hydrogen Electrolysis**
-  **Hydrogen Fuel Cells**
-  **Renewables Integration**
-  **Energy Storage**

Technologies



IGBT CHOPPER RECTIFIERS

Key Product Features

- High power density reduces space requirements
- High power quality eliminates the need for additional equipment and reduces balance of system costs
- High efficiency reduces costs for electricity
- Built-in redundancy reduces downtime and increases operational efficiency

Applications

- Electric Arc Furnace
- Hydrogen Production



CPS ENERGY STORAGE INVERTER

Key Product Features

- Advanced microgrid capabilities, including Black Start and Dynamic Transfer
- High power density reduces space requirements
- Extremely fast response maintains voltage and frequency stability in a dynamically changing load environment

Applications

- Stationary Hydrogen Fuel Cell
- Energy Storage



DPS

Key Product Features

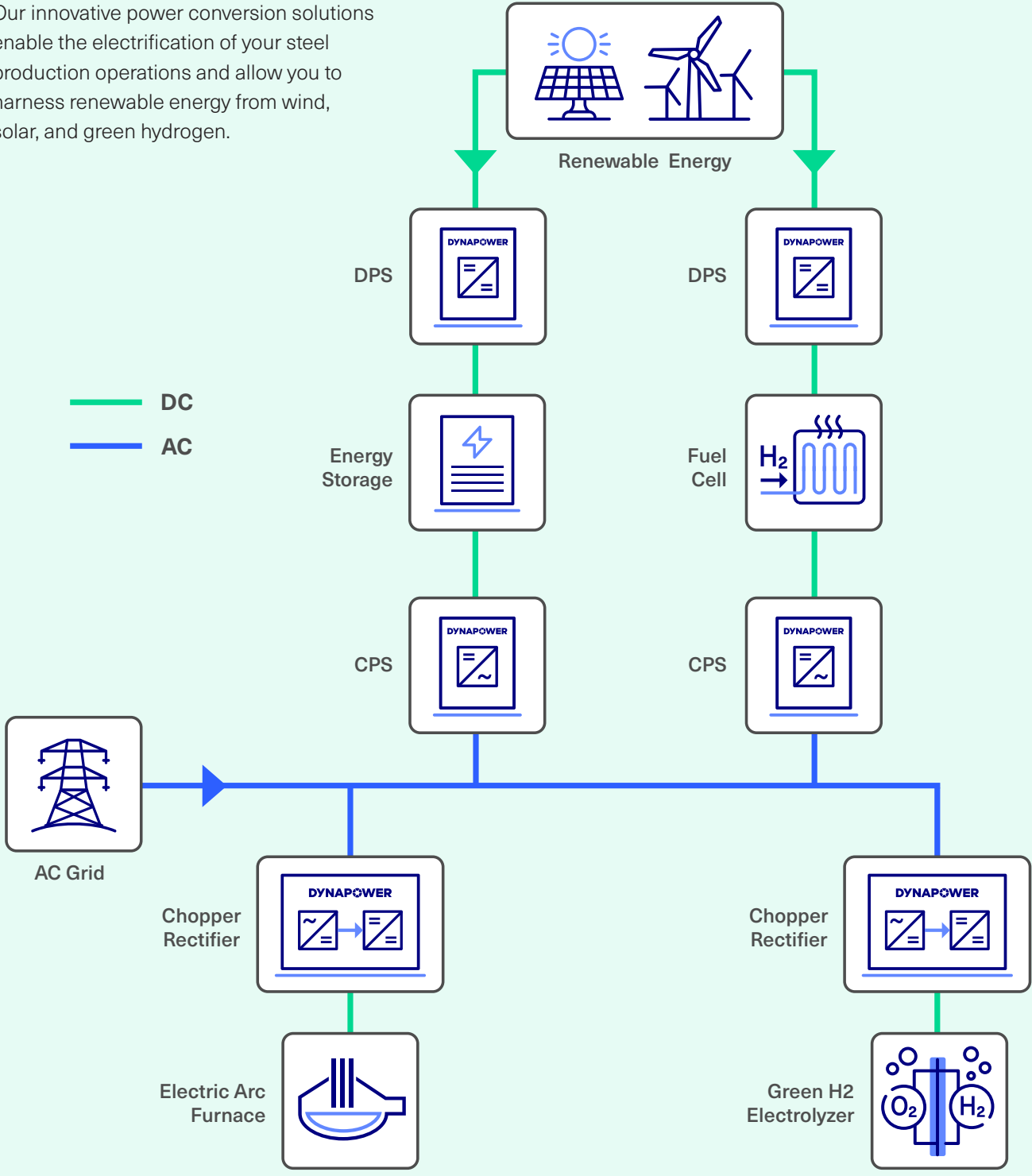
- Lower CAPEX, installation, and regulatory costs than AC-coupled energy storage
- Highest efficiency
- Increased revenue potential through use cases only possible with DC-coupled architecture
- Scalable configuration allows up to six units to be paralleled together to create building blocks up to 3MW

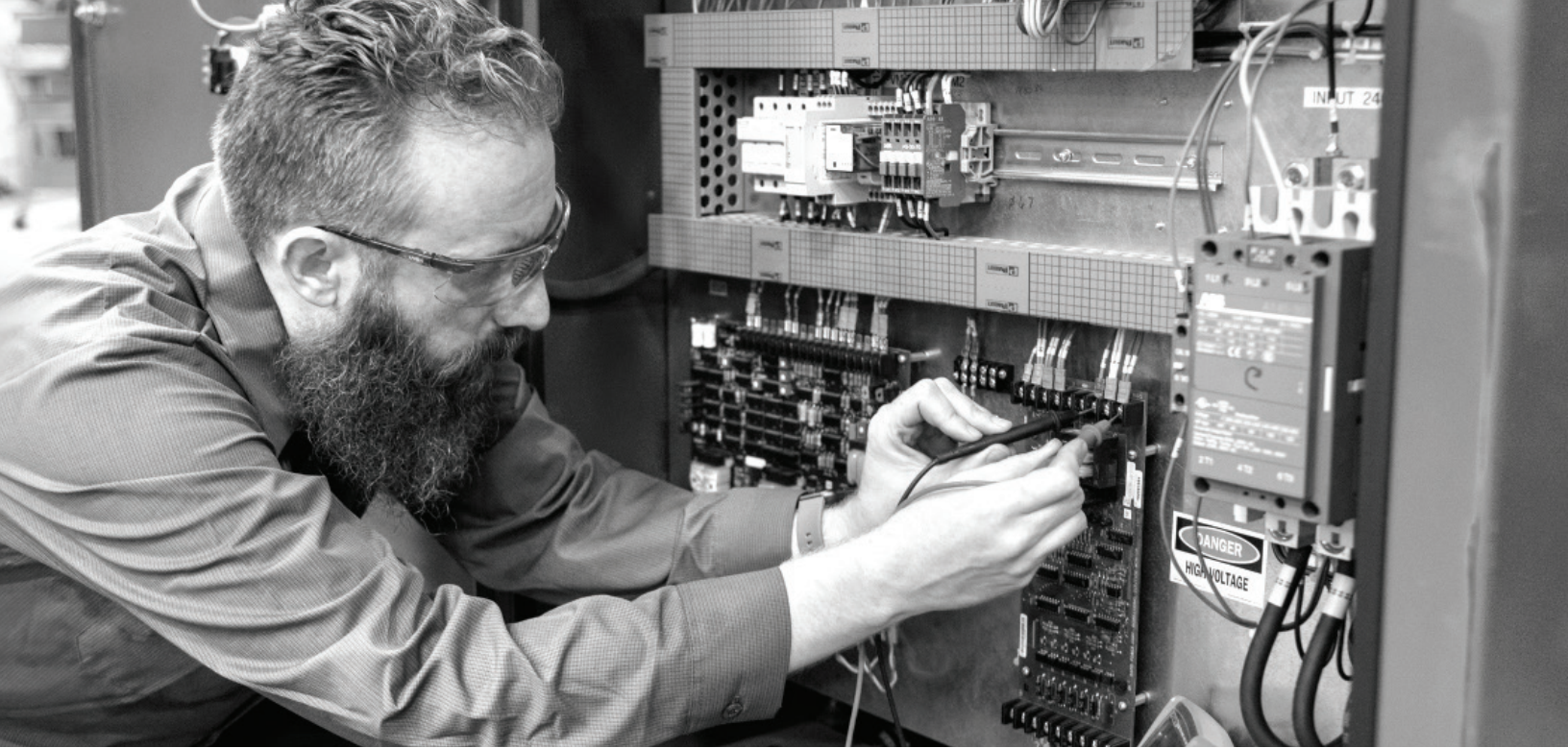
Applications

- Solar Plus Storage
- Green Hydrogen Production

Electrification Simplified

Our innovative power conversion solutions enable the electrification of your steel production operations and allow you to harness renewable energy from wind, solar, and green hydrogen.





U.S. Service & Support

COMMISSIONING

To ensure your power conversion system is in accordance with project specifications, we work closely with you during the commissioning and start-up phase. Our deep knowledge and expertise allow for effective planning, troubleshooting, and execution.

FIELD SERVICE

We help ensure the reliability and availability of your equipment with on-site equipment evaluation, repairs, maintenance, and planning. With a large field service staff, we can handle any job — big or small, high precision or high volume — anywhere in the world.

PREVENTATIVE MAINTENANCE

Equipment inspections and adjustments at regular intervals extend mean-time-between-failures, raise overall equipment effectiveness, and allow your production to stay on schedule. We offer four levels of Preventative Maintenance Plans that cover a range of health, safety, performance, and compliance checks.

SPARE PARTS

High-quality spare and replacement parts help ensure maximum uptime for your equipment. We supply thousands of spare parts, including control boards, amp and volt meters, potentiometers, fuses, thermal switches, diodes, thyristors, IGBTs, contactors, relays, and fans.

REMOTE MONITORING

When you have up-to-the-minute knowledge, you're able to make better decisions and avoid costly downtime and unplanned maintenance. We offer precise, real-time data on the health and useful life of your Dynapower equipment with remote condition monitoring.

24/7 TECHNICAL SUPPORT

We provide worldwide support and technical expertise any time of day or night, with technical support specialists, field service technicians, customer service reps, and a full complement of electrical and mechanical engineers. For immediate assistance, you can call us at (800) 332-1111 or visit our online support portal.

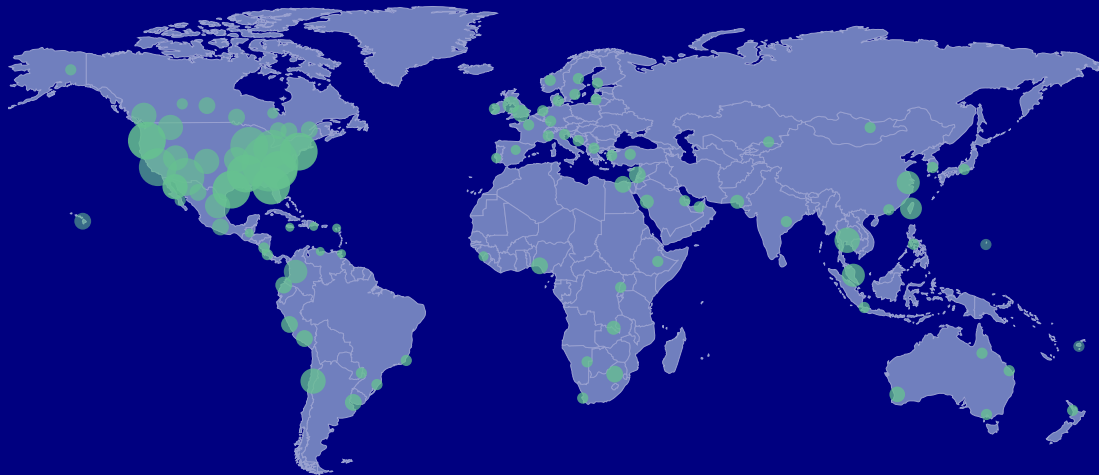
Why Dynapower?



We're dedicated to continual product development and refinement, with a relentless focus on cost optimization, performance, and reliability.

Our industry-leading time to market is backed by a consistent record of successful and impactful product launches.

- ✓ Producer of high power rectifiers for global applications for over 3 decades
- ✓ Trusted supplier to North America's largest dedicated Green Hydrogen production and storage hub
- ✓ World leader in DC coupled solar plus storage



>1.2GW
Clean energy products
deployed

>60
Countries across
the globe

>36k
Units of equipment
installed

About Dynapower

CONNECTING POWER TO PURPOSE

Since 1963, Dynapower has provided power electronics solutions and an array of aftermarket services to an ever-expanding global customer base, with a focus on continuous reliability and efficiency.

We are a trusted leader in all types of power conversion equipment, including high-power rectifiers, inverters, DC-DC converters, integrated battery energy storage systems, and transformers for use in clean energy, industrial, and defense applications.

Powered by the pursuit of a greener future, we are rolling up our sleeves and pushing the boundaries of science and innovation to shift the way our world uses power.



Dynapower is owned by Sensata Technologies, a global industrial technology company striving to create a cleaner, more efficient, electrified, and connected world.

LET'S POWER UP TOGETHER.

Take the first step toward a higher level of performance and reliability.

Call or email us today to discuss your options and get the right solution for your steel production needs.

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