

DISTRIBUTOR LINE CARD FOR THE UNITED STATES

Hitachi Energy products and services

Advancing a sustainable energy future for all

Hitachi Energy is a leader in power and digital technologies that enable utility, industrial and commercial customers to improve performance, reduce cost and minimize environmental impact. Hitachi Energy partners with customer-focused distributors in the United States to deliver a very wide range of innovative and high-quality products, solutions and services.

Grid Automation

Our Grid Automation hardware, software and services portfolio unites deep domain knowledge and innovative technologies that enable customers across the globe to optimize the critical systems that power, move and connect us. Together, we're building a more productive and sustainable world.

Product	Offering	Benefits
	COMBIFLEX® modular relays and COMBITEST relay test system	The proven COMBIFLEX® relay family and modular building system offer flexible and reliable protection solutions for a range of applications. The COMBIFLEX building system features unique flexibility for designing various protection schemes. The wide range of different mounting and casing alternatives allow the COMBIFLEX based protection system to adjust to any space and functionality requirements. COMBITEST relay test system provides a wide range of testing capabilities. COMBITEST is a finger-safe solution with no exposure to energized components. COMBITEST also provides maximum space savings with compact design and up to six times more test points available than with the traditional solutions.
	Wireless communication networks	Hitachi Energy offers robust, cost-effective, end-to-end solutions for industrial communication networks of physically disparate locations, Industrial Internet of Things (IIoT) endpoints, and mobility use cases. Offering a broad range of industrial wireless communication products and services, Hitachi Energy can meet the challenges of some of the harshest operating conditions. Hitachi Energy communications networks are industrial grade and can be used to build a highly reliable, secure, manageable, and scalable foundation that meet performance and capacity requirements for one or many applications. No single wireless technology can meet all requirements for customers in all environments. Hitachi Energy offers a wide range of network connectivity – broadband wireless communications, point-to-point/point-to-multipoint, narrowband mesh, and cellular, that can be optimally combined to build a complete communication network optimized for each operating requirement. Hitachi Energy wireless products seamlessly integrate into an enterprise-class network management platform to provide full network observability, operational simplicity, and troubleshooting.
	e-mesh™ PowerStore™ Battery energy storage system PQplus™	Hitachi Energy e-mesh™ PowerStore™ is a scalable microgrids and energy storage solution that is designed to ensure reliable power availability, grid stability, highest possible penetration of renewable energy together with an intelligent control system for both grid-connected and off-grid systems. A battery energy storage device thus becomes an integral part of the changing relationship between the utilities and its customers. Hitachi Energy' battery energy storage system, PQplus™ helps the electricity consumers by actively managing the timing and profile of their energy usage. It reduces energy costs and makes the system more resilient while improving the overall efficiency, reliability and availability of the power system.

High voltage

Hitachi Energy offers a wide range of innovative high voltage products that help enhance the reliability, efficiency and quality of power while minimizing environmental impact - all complimented by a comprehensive service offering.

Product	Offering	Benefits
 MV capacitors	Q Pole switched capacitor banks (up to 34.5 kV), smart controllers, capacitor vacuum switches, and centralized Volt-Var Management System (VOMS)	Switched pole-mounted capacitor banks are factory assembled and wired, with high reliability capacitor units, potential transformer, capacitor vacuum switches rated 50,000 operations, and CQ900R smart capacitor controller. They are complete with remote communications capability, programmable software, Cap Link local wireless option, and neutral current sensing option. Field proven for large and small utilities, switched pole-mounted capacitor banks are the perfect solution for a complete volt-var management system.
 Gas insulated instrument transformers	72.5-800 kV systems, metering & protection, gas insulated designs (head type CTs to 800 kV, inductive VTs to 420 kV, combined CT/VT up to 245 kV, station service up to 525 kV)	Designed for voltages from 72.5 to 800 kV with the use of SF6 gas, gas insulated instrument transformers are explosion proof, non-flammable and maintenance free with a higher performance in very polluted environments.
 HV instrument transformers	15-765 kV systems, CT ratios up to 4000:5, metering & protection, oil-filled designs (head type CTs up to 765 kV, inductive VTs to 525 kV, combined CT/VT up to 245 kV, station service to 345 kV)	Reliable shield-graded oil insulated designs, high creepage insulators, low maintenance hermetically sealed configuration, corrosive resistant housings, multi-ratio, multi-core designs, and engineered solutions for specific needs.
 Low voltage capacitors and filters	Power Factor Correction capacitors from 208 V to 660 V, individual units for use on motors, automatic switching capacitor banks (detuned available), transient free switching capacitor banks, and active harmonic filters	Power factor correction capacitors are dry type, and use protected elements assembled with discharge resistors. Individual capacitors are available from 2 kVAR to 120 kVAR. Automatic capacitor banks are fully factory assembled with all Hitachi Energy components, up to 1200 kVAR. Automatic banks include the touchscreen RVT controller for complete network and bank monitoring. These active filters are a highly efficient solution for filtering harmonics up to the 50th order.
 HV breakers	Up to 1200 kilovolts AC and 1100 kilovolts DC	Hitachi Energy offers a comprehensive range of high-voltage switchgear and breakers up to 1200 kilovolts AC and 1100 kilovolts DC that help enhance the safety, reliability and efficiency of power networks while minimizing environmental impact. Our technology leadership continues to facilitate developments in areas such as ultra-high-voltage power transmission, enabling smart grids and enhancing eco-efficiency.
 HV disconnectors	72.5 kV to 550 kV, IEC 62271-102 and IEC 62271-1 standards	Hitachi Energy offers a wide range of reliable and energy efficient disconnectors to meet the requirements of different sites and network conditions. The disconnectors range from 72.5 kV to 550 kV. Our disconnectors are designed as per IEC 62271-102 and IEC 62271-1 standards. Also, other standards and regulations (eg, IEEE, GOST, and GB) can be met on request.
 Surge arresters	4 to 800 kV, all IEEE/ANSI class, all IEC line discharge class, standards IEEE/ANSI & IEC	With the widest energy capability selection, Hitachi Energy' High voltage surge arresters portfolio includes both silicone- and porcelain-housed arresters up to 800 kV and IEEE class J – altogether a safe, secure and economic supply of energy.
 Service	Support 34.5 kV-800 kV: dead tank circuit breakers, live tank circuit breakers, generator circuit breakers, gas insulated switchgear, instrument transformers and capacitors	Service for high voltage includes: installation and commissioning, maintenance, overhaul, parts, repair, training; diagnostics, extensions, retrofit, refurbishment, upgrades, environment services, monitoring; ABB, ASEA, BBC, ITE, Westinghouse (oil & gas).

Distributed by Gross Automation.

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Transformers

Hitachi Energy offers a complete range of power and distribution transformers designed to grant the reliability, durability, and efficiency required in utility, industrial, and commercial applications. Hitachi Energy is a major transformer manufacturer throughout the world and offers both liquid-filled and dry-type transformers as well as services for complete life-cycle support, including replacement parts and components. Our portfolio allows customers to maximize the return on transformer assets by ensuring a high reliability, reducing life cycle costs and ensuring optimized performance while lowering environmental impact.

Product	Offering	Benefits
 Transformer components	Bushings, load tap-changers, distribution components	Hitachi Energy is the market leader in components technology which allows for the safest and most reliable connection of your transformer to the network. Our offering includes a full range of digital sensors and accessories as well as dry and oil-filled bushings, vacuum-type and conventional load tap-changers, de-energized tap-changers, distribution components including switches, fuses, bushings, canisters and components which include: sudden pressure relays, gas preservation systems and gas detection relays.
 Pole-mount distribution transformers	Pole-mount distribution transformers and micropole transformers (3 kVA or less) offer efficient, reliable power for small, isolated load applications	Hitachi Energy' pole-mounted distribution transformers are mounted above ground on poles. These transformers typically service urban and rural residential and commercial loads.
 Distribution padmount & submersible transformers	1 ph padmount or submersible designs, (10-250 kVA, up to 34.5 kV), 3 ph padmount designs (45-10,000 kVA, up to 34.5 kV) and 3 ph submersible designs, (45-1500 kVA, up to 34.5 kV)	Hitachi Energy offers a complete range of distribution transformers designed to grant the reliability, durability, and efficiency required in utility, industrial, and commercial applications. Hitachi Energy' liquid-filled transformers are manufactured in accordance with the most demanding industry and international standards. Transformers can be used for indoor or outdoor applications and can be provided with off-load and on-load tap-changers.
 Distribution substation transformers	3 ph secondary unit substation designs (45-10,000 kVA, up to 34.5 kV)	Hitachi Energy' proven design offers excellent mechanical strength that has been proven through years of service and special testing. Hitachi Energy uses a low frequency heating insulation drying process where the insulation is dried in its own tank and is never exposed to the atmosphere once it dries. The product scope offers cooling types ONAN, ONAF and ODAF as well as mineral oil and ester fluids (natural and synthetic).
 Dry-type transformers	Full range of dry-type transformers up to 63 MVA with primary voltages through 72.5 kV	Hitachi Energy offers a full range of dry-type transformers with primary voltages through 72.5 kV. To minimize environmental contamination and fire hazard, customers are specifying dry-type transformers more frequently. These transformers meet strict parameters with respect to electrical system demands and functioning in areas with extreme climatic conditions. Hitachi Energy' dry and cast transformers are virtually maintenance free and are manufactured in accordance with industry and international standards including ISO 9001.
 Network transformers	Liquid-filled up to 2500 kVA or dry-type up to 1 MVA network transformers	Hitachi Energy has completed the development of the dry-type transformer intended for network applications, even submersible. The unit is inside of a completely sealed tank and both tank and active assembly have been designed and tested to the IEEE C57.12.40 standard for network transformers (amended for dry-type features). The absence of oil eliminates the threat to the surrounding environment during an internal failure.
 Power transformers	Complete range of power transformers up to 1200 MVA and up to 800 kV, including GSU, sub-station, phase-shifter, shunt reactor and HVDC converter applications	Hitachi Energy offers a complete range of power transformers and related components and parts. We have delivered more than 20,000 power transformers (over 2,600 GVA), including over twenty 800 kV UHVDC and over five hundred 735-765 kV AC units, to all major global markets. Our entire range is the result of our own research, development and manufacturing, which makes us unique in the industry. This has given us extensive experience in every relevant part of power transformer technology. Customers worldwide can securely rely on the quality and reliability of our products.

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