



Power Integration Services

Marway Power Solutions offers quality engineering and manufacturing services for contractors needing flexible power integration solutions for electrical equipment enclosures. Marway is a long-time supplier of power distribution systems and integration services from OEM PDUs to fully-customized racks for command-and-control centers in industrial and military facilities, ships, airframes, and other applications.

Services and capabilities

Generally speaking, our services specialize in the packaging of rack-mount control centers. Whether the equipment is used for communications, test and diagnostics, power management, or other roles, we're able to provide a number of services such as these below:

- rack enclosure selection/design
- sub-system specification, selection, and procurement
- power distribution and multi-power management design
- integration wiring including the design of customized control and interconnect panels
- assembly and test
- documentation and certification
- operation and maintenance training
- blanket order/supply chain replenishment

A key value-added service Marway offers is the potential for space optimization within the rack. By allowing Marway to participate in the design process of all power distribution and line conditioning, we're able to leverage our standard-modified and custom power distribution products to make more room for high-value, application-specific equipment.

Modern CAD and CAM

Marway uses modern CAD and modeling. This helps ensure quality mechanical and electrical design, and allows us to experiment with virtual serviceability before we begin manufacturing. This process also aids in providing detailed documentation for service and maintenance.

Quality that's recognized

Long before our AS9100 with ISO-9001 certification, quality has been a part of Marway's genetics. We believe it's our attention to detail that has earned us the awards, letters, and praise from our customers about our design and manufacturing quality.



Our 25,000 sq. ft. facility includes a raw material processing center allowing us to mill, punch, and laser-cut sheet metal on-site for higher quality control and shorter turn-around time.

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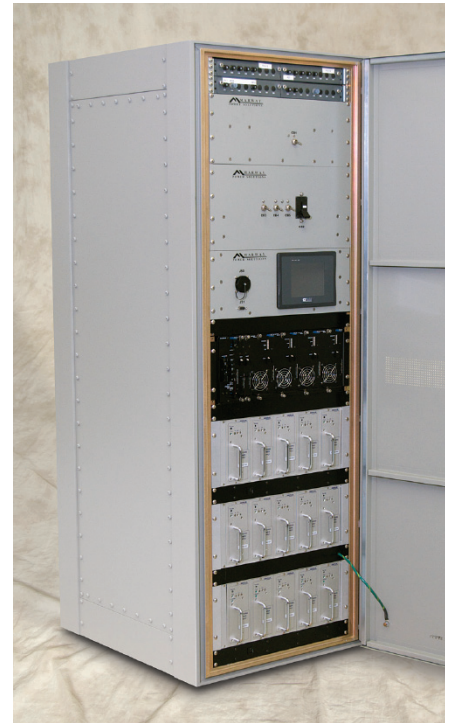
Engineered Solutions

This system was designed and manufactured by Marway including sub-system selection of both COTS and custom Marway equipment. The system's primary function is power conversion and distribution of clean, uninterrupted power to a mission critical communications center aboard a navy ship.

The overall design features front removable modules and cable management for ease of service. A touchscreen monitoring system is combined with web-based access for remote monitoring.

Power management includes raw 115 VAC and 24 VDC battery inputs which are filtered for clean output of 115 VAC, 24 VDC, and -48 VDC output. An automated load shedding mode prioritizes output to critical connectors based on available power.

The entire cabinet used military type connectors, and was designed and tested to MIL-STD 167 and 901D were used to provide shock and vibration resistance.



OEM Product Optimization

Marway offers custom designed solutions to integrate power, UPS, diagnostics, and general-purpose power management into OEM equipment used in manufacturing, testing, and other applications. Whether power distribution requires proving end-user power access as with this remote test cart shown, or whether the OEM unit requires only internal power distribution, Marway can offer optimized rackmount configurations or customized form factors to optimize the usage of space within the OEM platform.

