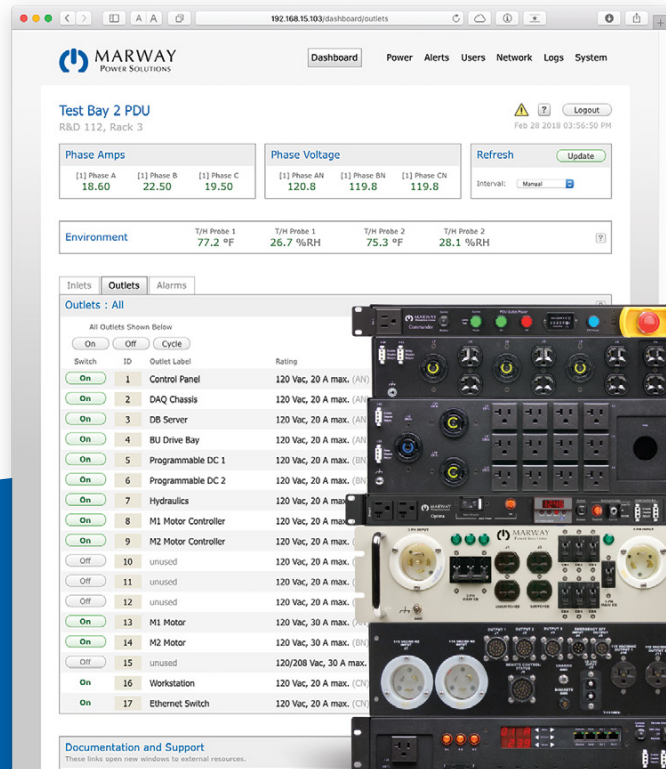




Power Distribution Solutions

Power Distribution Units
Control/EPO Panels
Auto-Transfer Switches
Rack Power Integration





Optima™ Power Distribution Units

Defense and Industrial, Custom and Standard

Custom PDUs for Any Application

A custom PDU offers the opportunity to consolidate power management capabilities such as electrical noise filtering, power monitoring, outlet control, safety interlocks, and more into a convenient, single-enclosure solution tailored to the application. Marway specializes in working closely with customers to configure custom PDUs to meet all aspects of power distribution, power conversion, conditioning, control, safety, installation, environment, and even regulatory requirements.

- From rackmount and custom enclosures to full rack-sized systems.
- Ac and dc, in 50, 60, and 400 Hz, up to 400 Amps.
- Consolidate requirements to reduce parts, cabling, space, and weight.
- Mix power forms, and convert power forms in a single unit.
- Mitigate voltage spikes/transients using surge suppression.
- Meet EMI standards using filters and shielded enclosures.
- Monitor power quality, available capacity, and discrete status.
- Onboard digital or analog meters for amps, volts, power, and others.
- Onboard indicators for phases, circuits, outlets, and interlocks
- Remote outlet control via Ethernet, dry-contacts, EPO, and interlocks.
- Integrate external signals to automate control and safety dependencies.
- Multiple MIL-SPEC conformances, UL, CE through NRTLs.

520 & 820 Series 1-Phase (1U)

- 120 Vac, 200–240 Vac, or 110–240 Vac 1 ϕ .
- 12 A, 15 A, and 24 A continuous duty ratings (15 A, 20 A, 30 A max).
- Standard surge suppression, EMI filtering, and remote EPO control.
- 820 Series with RCM Ethernet switching and power monitoring.

532/533 & 833 Series 3-Phase (2U,3U,3U)

- All models are 120/208 Vac 3 ϕ wye, 24/30 A, with an L21-30 inlet.
- Standard surge suppression, EMI filtering, and remote EPO control.
- 833 Series with RCM Ethernet switching and power monitoring.

529/539 & 829/839 Series 1- & 3-Phase (0U)

- Single-phase in 120 Vac, 200–240 Vac, or 110–240 Vac.
- Three-phase in 120/208 Vac 3 ϕ wye.
- 12 A, 16 A, and 24 A continuous duty ratings (15 A, 20 A, 30 A max).
- Full-rack and short-rack models.
- 829/839 Series with RCM Ethernet switching and power monitoring.



Above and cover photo: Marway specializes in custom PDUs from 1U to rack sized. From commercial to MIL-STD, we integrate power conditioning, conversion, control, and conformance requirements into a single solution package.



Samples of the dozens of standard models to choose from. Numerous inlet & outlet connectors, circuit configurations, and power management options including networking and scripting to choose from.

Providing power distribution for multiple industries and applications.

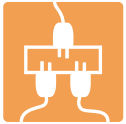


Commander™ Remote Control and EPO Panels

Marway's universal control panels consolidate the on, off, and EPO control features used to manage one or more power distribution units. Optima Series 8, Series 5, and custom PDUs equipped for remote control can all be controlled by the same Commander panel. The signal can be daisy chained across PDUs to manage multiple racks of equipment simultaneously. In addition to on/off control, the EPO circuit of the Commander panels provide added safety for the combined power system.



The Commander 5000 (shown) provides On/Off control, EPO, status indicators, and utility outlets. The Commander 4900 (not shown) offers basic on/off/EPO functions in a more economical package.



TwinPower™ Auto Transfer Switches

An automatic transfer switch (ATS) enables critical equipment to have both a primary and a secondary power feed. If primary power fails, the ATS automatically switches to the secondary power feed. Marway's "break before make" switching mechanism ensures isolation of the two power feeds, and eliminates a requirement for the two power feeds to be phase synchronized. This type of switching is used mostly with equipment which would not lose functionality due to a power loss lasting just under 20 milliseconds.



Standard TwinPower ATS models are available for 120 Vac or 208 Vac 30 amps. Custom designs to meet application-specific needs are also available.



PowerPlus™ Turn-key rack-level power integration

While Marway is not a general-contract integrator, we do provide value-added engineering and manufacturing services to ensure the success of complex power projects requiring rack integration.

When the core infrastructure of power distribution is supplemented with external power related systems, it is critical that all products are properly matched and compatible. Marway's expertise with UPSs, power supplies, inverters, converters, transformers and more help ensure components are properly selected and integrated. Additionally, complex integrations require knowledge of details learned through experience to ensure proper operation, signal integrity, ease of maintenance, and safety.

Whether your group doesn't have the time, tools, or the expertise, using Marway's PowerPlus services to provide turn-key racks can help ensure a higher level of engineering, manufacturing, and conformance testing which ultimately results in a more successful project.



More Details At: www.marway.com

Committed to the success of your project for over 40 years.



What We Do

Marway designs and manufactures power distribution products for electronic equipment in either standard rack-mount form, or in custom enclosures.

We specialize in creating optimized solutions for unique applications. Whether for one-time, custom, multi-rack platforms, or for high-volume OEM power boxes, we're able to meet the needs of a variety of engineering and manufacturing needs.

We also design and manufacture auto transfer switches to handle dual power sources, and custom control and EPO panels to help manage multiple or remotely located PDUs.



Who We Do It For

Over the years, much of Marway's focus has been on meeting the demanding needs of industrial, military, and OEM applications. We've delivered thousands of custom designs for test applications used in development, DVT, and maintenance environments. In the defense realm, we have hundreds of products deployed in ships, submarines, aviation, and mobile command centers.

We have also delivered a great number of rackmount PDUs and custom-enclosure power modules for industrial, commercial, and OEM applications.



How We Do It

With Marway's ability to create PDU's for unique applications, the PDU becomes an ideal place to consolidate many power management needs. This includes conditioning incoming power to minimize noise, converting available power to other forms, adding controls for safety and operator convenience, and integrating monitoring to display power conditions and status.

We call these capabilities the pillars of power management. Marway has specialized in the integration of these capabilities to reduce space, weight, and costs, and to improve performance compared to separate third-party components.

