Power Distribution Solutions

Power Distribution Units
Auto-Transfer Switches
Control/EPO Panels
Rack Power Integration
Optima™ and Optima RCM
Basic and Networked Power Distribution Units

520 & 820 Series 1-Phase (1U)
- 120 Vac, 200–240 Vac, or 110–240 Vac 1φ.
- 5-15R, 5-20R, or high-tension C13 outlets (2 on front, 10 on back).
- Standard main power circuit breaker, indicator, and surge suppression.
- Options include current and voltage meter, remote switching and EPO interface, sequencing of two groups of four outlets, and an EMI filter.
- New 820 RCM series with Ethernet switching and power monitoring.

532/533 & 833 Series 3-Phase (2U/3U/3U)
- All models are 120/208 Vac 3φ wye, 24/30 A, with an L21-30 inlet.
- Standard main power circuit breaker, phase power indicator, surge suppression, EMI filtering, and remote EPO control.
- Options for location of the inlet on the front or rear panel and a variety of outlets (5-20, 6-20, L5-20, L5-30, L6-20, L6-30, L21-30).
- New 833 RCM series with 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 3φ wye.
- Full-rack and short-rack models.
- Outlet types including C13/C19 combinations, 5-15R, and 5-20R.
- New 829/839 RCM series with Ethernet switching and power monitoring.

Custom PDUs for Any Application
Marway specializes in purpose-built PDUs optimized to meet application requirements while conserving space, weight, and cost. The advantages of a custom design from Marway:
- Cost-competitive collaborative design and turn-key manufacturing in support of, and in parallel capacity to, your in-house application team.
- Power engineering expertise to assure properly matched components for efficiency, signal quality, and reliability.
- Design experience in finding novel solutions often resulting in better performance, a smaller package, and lower cost.
- Experience with safety- and compliance-qualified components and designs helps to avoid late-stage redesigns in the project.
- Consolidate power infrastructure into a single part number to simplify purchasing, manufacturing, and project logistics.
TwinPower™
Auto Transfer Switches

An automatic transfer switch (ATS) enables critical equipment to have both a primary and a secondary power feed. By default, equipment is powered by the primary feed. If the primary power fails, the ATS automatically switches to the secondary power feed. Marway’s ATS products use a “break before make” switching mechanism. This technique ensures isolation of the two power feeds, and eliminates a requirement for the two power feeds to be phase synchronized. This type of ATS switching is used mostly with equipment which, though powered, may not be engaged in work 100% of the time, or would otherwise not lose functionality due to a power loss lasting just under 20 milliseconds.

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. PDUs with remotely switchable outlets can then provide power on/off control in unison to downstream equipment. Additionally, the EPO circuit of the Commander control panels improves safety of the combined power system.

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
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 PDUs for industrial, commercial, and OEM markets serving applications like automated test, DVT, factory power distribution, and many others.

How We Do It

With Marway’s ability to create PDUs 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.