



# Power Distribution Units

Quality products from Marway Power Solutions provide a solid foundation of reliable power distribution for any equipment set. For 30 years Marway has specialized in build-to-order and purpose-built PDUs optimized to save space and weight and meet the unique needs of customer applications. We have many standard systems ready to ship for general applications as well.

## Products and services

Marway Power Solutions designs and manufactures innovative, end-to-end, power distribution solutions for mission critical data systems, control systems, communications, test systems, and more. Our core products include power distribution units (PDUs) and universal control panels (UCPs) in standard, standard modified, and custom configurations.

## Flexibility in design

Second only to quality, PDUs and control panels are characterized by choice; your choice of features to suit your application. We often meet specialized requirements with purpose-built designs, but we have a number of off-the-shelf products and pre-existing designs which can be modified to deliver both COTS and COTS-modified solutions as well.

## 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.

## Experience that matters

With over 30 years of focus on power distribution, Marway has gained experience in what matters to various industries. From value-engineered products for OEMs to the specialized needs of battle-ready environments, Marway knows what it takes to help your project succeed.

## Standards and certifications

Marway has delivered products meeting the requirements of many commercial and military specifications including NEC, CSA, TUV, UL, C-UL, CE, MIL-SPEC, and others.



Universal control panels (UCPs) provide control and indication for PDUs or an entire rack of both Marway and application equipment.



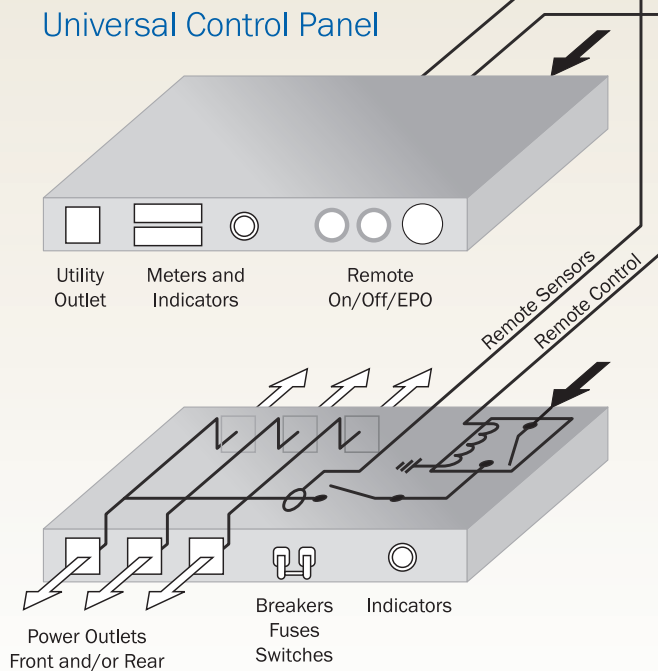
This unit served as the power center for a blade server farm which used 208 VAC input to provide AC as well as 12 and 48 VDC output. It includes on-board redundant power inputs with 13ms auto transfer, extensive signal monitoring, and remote control. MIL-SPEC connectors saved space for what had to be a compact design.



Space was a significant theme for this design which reduced the customer's previous hardware set by 50%. This multi-circuit system includes line filtering power source indicators, audible alarm, built-in lamp testing, and EPO.

# Power Distribution Units

## PDU and UCP Interfacing



## Power Distribution Unit

## PDU Features and Options

### Voltage

- 1Ø, 3Ø, 50–60Hz, 400Hz
- any input voltage VAC, VDC
- any output voltage from inverters, converters, rectifiers, transformers
- up to 100 Amp loads and higher

### Power Quality

- surge protection
- EMI filtering
- RFI filtering

### Chassis

- 19" rackmount
- 1U through 12U
- various finishes
- various handles

### Circuit Control

- fuses, breakers, switches

### On/Off/EPO

- momentary, twist-lock, or toggle
- EPO, normally-open or closed
- remote and daisy-chain control
- sequential power up/down

### Status Indicators

- lamps, LEDs, digital meters

### Communications

- dry-contact, RS-232, ethernet

### Connectors

- MILSPEC, NEMA, IEC



This unit provided a 3Ø input with various loads on each phase. Phase load monitoring was provided with digital readouts as well as input indicators. As this unit was to be installed at floor level, the digital readouts were mounted at an upward angle for easier reading.



While Marway differentiates itself through its ability to deliver customized application-specific solutions, we also have a broad catalog of standard and ready-to-ship UCPs and PDUs.

