Optima[™] Power Distribution Units PDUs for Test, Industry, Defense Support and More

Marway has taken its experience in creating thousands of custom PDUs, and designed standardized systems with the capabilities and options we're most often asked for. With strong enclosures, versatile power options, EMI filtering, remote control, and more, Optima PDUs are well suited to many applications in manufacturing, communications, aerospace, defense, test, and other industries.

Distribution and Protection

Marway's Optima PDUs go beyond the commodity PDUs offered by the vast majority of companies these days. While others chase racks full of easy-to-power computers, Marway continues to focus on the applications where mixed equipment, electrically noisy, and frequently reconfigured environments are the norm.

Most standard models include circuit breakers, surge suppression, EMI filters, and a remote On/Off/EPO control bus needed for safety in industrial-like settings. We have several current and voltage options and chassis sizes—all allowing a right-sized strategy while maintaining compatibility, familiarity of operation, and consistency in support.

Optima 5: Core Workhorses

This series takes Marway's protective distribution core, and packages it in several horizontal and vertical models. There's a selection of outlet types, inlet types, and circuit configurations in 15, 20, and 30 Amp capacities for single phase and three phase power.

Optima 8: Networked Workhorses

Take the concepts of the Optima 5 and add Ethernet networking with a rich set of software capabilities, and you get Optima 8. These systems are designed for remote access and automation, and with the equipment protection capabilities not available in data center PDUs.

Optima 3: Essentials

The 3 Series is the most budget conscious line with the fewest options, but still with the key ingredients of a main breaker, surge suppression, and EMI filtering. This is a great solution for electrically noisy environments where basic powerstrips don't provide protection for connected equipment. (Optima 3 are not TAA compliant.)

Note that OU systems do not offer EMI filtering or the remote On/Off/EPO bus as there is no space for them in the narrow enclosures.





Contact Our Power Specialists info@marway.com • 800-462-7929

A Sturdy Industrial Chassis

All chassis are 18 gauge steel and finished with a black powder coat. Mounting brackets for all horizontal units are repositionable to allowing for six mounting configurations. Brackets can be flush with, recessed from, or protruding from the front or rear panels.

The brackets can be left off for table-top use, or for custom user-provided mounting. The product manual includes additional details and dimensions.

Brackets for the 2U and 3U models have passthrough holes which can be useful for front mounted power inlets to pass cable back into the rack interior.

Repositionable brackets and tool-less button mounting are available for the vertical 0U units.

EMI Filter

- Standard on most 320 Series
- Standard on all 520, 532, 533, 820, and 833 Series
- Unavailable on all OU models (329, 529, 539, 829, 839)

Modern electronic equipment such as computers, security systems, communications hardware, data acquisition systems, and others require stable, clean power free of noise in order to perform their functions optimally and reliably. Electromagnetic interference (EMI) is noise added to power lines in buildings by a variety of commonly used electrical equipment such as air conditioning, office equipment, power tools, factory machinery, and more.

The EMI filter option includes a broad-spectrum EMI filter on the incoming ac power signal. This helps eliminate noise outside of the 60 Hz power signal range. In short, it helps ensure equipment attached to the PDU gets a stable, clean power signal.

Surge Suppression

Standard on all 8 Series, 520, 532, 533, most 320 Series

Virtually all electrical environments experience voltage surges (lasting seconds) and spikes (milliseconds). These can come from storms or fluctuating utility lines, but most events come from switching equipment on/off inside the building. Sudden changes in load on the electrical system can create short increases in voltage which travels through wiring between equipment. Surge suppression helps to absorb these surges before they get to equipment, and prevent wear and damage to electrical components leading to downed equipment.



Mounting brackets are relocatable to allow for different mounting positions. The 2U and 3U model brackets also feature a passthrough opening to direct a front inlet cable to the interior of the rack when the brackets are mounted for a recessed-chassis position. Brackets can be flipped to allow rear-facing positions as well.

Signal conditioning of ac power seeks to ensure as close to a perfect sine wave in the voltage signal as possible. The upper waveform has no noise, where the lower one (conceptual illustration) is quite noisy. An EMI filter helps to significantly reduce noise to the outlets.



Surges, and spikes, are brief moments where the voltage increases. Large spikes can be damaging by themselves, but over time, many small spikes also weakens electrical components which accelerates their failure.





Remote EPO

- Standard on 520, 532, 533 Series
- Standard on 820 and 833 Series
- Unavailable on 320 and all OU Series

In some applications, particularly those with machinery connected to a PDU, an Emergency Power Off (EPO) may be warranted. An EPO is a large, prominently placed push button used to disconnect power to all devices connected to the PDU. These buttons are intended to be easy to find and press in an emergency scenario.

The EPO button, and On/Off buttons are often located on a remote panel. Marway's Commander UCP products are used exactly for this purpose.

The Optima remote EPO feature is primarily designed for use with Marway's Commander panels. A Commander panel may be connected to one or more PDUs, and thereby provide remote on/off and EPO functionality for several equipment sets in unison. Where the Commander panel provides the on/off/EPO control, the remote connectors of the Optima PDU provide the chassis-to-chassis interfacing to enable that control from the Commander panel.

In each Series, the remote EPO covers most outlets, but most models have one or two outlets always powered (unless the main breaker is off).

A mode switch on the PDU allows an operator to choose whether the remote panel On/Off switches are ignored (the EPO button is still effective), whether all outlets are manually forced off, and whether the remote panel is engaged normally.

In systems with software switching of outlets, the EPO system always overrides the software switch state.

Whenever the main circuit breaker is On, the phase power indicators illuminate to indicate that power is *available* to the chassis. However, the remote panel or local mode switch may have the controlled outlets disabled.



The remote EPO option includes control bus connectors to match Marway's Commander UCP remote EPO panel. This bus is compatible with all of Marway's standard Optima products.



Commander UCP Remote EPO Panels



The Commander UCP 5000 (top), 5100, and UCP 4900 (bottom) are standard Marway remote EPO panels suitable for controlling the remote EPO feature of Optima PDUs.

The UCP 5000/5100 features on/ off/EPO controls along with status

indicators and a number of connectors to provide flexibility in interfacing to multiple PDUs.

The UCP 4900 includes a basic on/ off switch with an EPO mushroom button in a blanking-plate-like open frame chassis.



Outlet Switching

All models have at least one main breaker which can be used to "switch" all outlets either on or off. Many series and models include multiple breakers which can switch a subset of outlets on or off.

Remote Switching with the On/Off/EPO Bus

- Standard on 520, 532, and 833 Series
- Standard on 820 and 8833 Series
- Unavailable on 320 and all OU Series

For models with the remote EPO bus, the remote panel can be used to switch on/off all outlets (except for the one or two utility outlets which are always powered). Also with this system, the local toggle switch can be used to force outlets off.

Remote Ethernet Switching

- Standard on 820, 833, 829, 839 Series
- Unavailable on all other series

Switching of individual outlets can be manually done through web and command line interfaces, or automated through SNMP, RESTful API, or scripting the CLI.

Each outlet may be labeled to reflect its purpose or what it's connected to. Each outlet includes on/off/cycle control with individually adjustable on delay, off delay, and cycle delay. Each outlet can be set so that during startup of the PDU, the outlet will be on or off, or whatever the last known state was prior to shutdown.

Power Display / Monitoring

A power display or remote monitoring system is a useful option for several purposes. Voltage monitoring provides a basic level of confirmation that the PDU is being supplied with suitable power, and there's no voltage drop in the line.

Current monitoring helps measure the consumed capacity of the PDU, and in some cases can be used to monitor the stability of the downstream loads. The built-in circuit breaker will protect wiring from an overload, and a current meter shows how close to that limit the PDU is.

Watts, and VA and VAR if available, are measurements of how much power is actually being used. This can be useful for planning capacity needed from backup battery systems or other off-grid power sources.

Power factor quantifies efficiency. Knowing this value can help with planning (and verifying) the balanced distribution of equipment on a building's electrical system.



Breakers and the remote EPO bus can be used to switch outlets on/off.

est Bay 2 &D 112, R			20 C	
Phase Amp	ps		Phase Voltage Refresh	Update
(1) Phase A 21.00	[1		Phase C [1] Phase AN [1] Phase BN [1] Phase CN .95 ¹ / ₂ 120.8 121.8 119.8	•
Environme	ent		Tricke 1 T/H Probe 2 T/H Probe 2 T/H Probe 2 T/H Probe 2 Z °F 44.4 %RH 74.8 °F 47.2 %RH 47.2 %RH	2
Inlets 0 Outlets : A	utlets	Alarms		[?]
		in Below	Apply Actions	
		Cycle	Apply Actions	
Switch	ID	Outlet Label	Rating Action	
On	1	Control Panel	120 Vac, 20 A max. (AN) None 😨	
On	2	DAQ Chassis	120 Vac, 20 A max. (AN) None C	
On	3	DB Server	120 Vac, 20 A max. (AN) None 🖸	
On	4	BU Drive Bay	120 Vac, 20 A max. (AN) None 0	
On	5	Programmable D	C 1 120 Vac, 20 A max. (BN) None	
(no)	6	Programmable D	C 2 120 Vac, 20 A max. (BN) None 0	
<u>On</u>	7	Hydraulics	120 Vac, 20 A max. (BN)	
On	8	M1 Motor Contro	Iller 120 Vac, 20 A max. (BN) None 😨	
(0n)	9	M2 Motor Contro	eller 120 Vac, 20 A max. (CN) None 0	
(10)	10	unused	0 0 Terminal	
0#	11	unused		
011	12	unused	Marway PDU Command Line	
(0n)	13	M1 Motor	Login: root	
0n	14	M2 Motor	Password: ******	
(110)	15	unused		
On	16	Workstation	<pre>#> getOutlet 2</pre>	
On	17	Ethernet Switch	Outlet ID = 2: DAO Chassis	
			Outlet ID = 2: DAQ Chassis Panel Name = J2	
Document	ation	and Support	Rated Volts = 208 Vac (AB)	
		vindows to external i		
		Fac	Rated Amps Continuous = 12 A	
		Email : Pho		
		FIG	Switch Startup State = on	
			Switch On Delay = 0.0 s	
			Switch Off Delay = 0.0 s	
			Switch Cycle Delay = 5.0 s	
			Alert Relay Change = yes	

User interfaces include web and CLI. Each provides access to outlet control and configuration settings. Web interface above shows a three-phase product with Phase C inlet amps having triggered a highwarning setpoint.



8 Series Ethernet Power Monitoring

• Standard on all 8 Series

The 8 Series power monitoring system includes internal hardware to measure power consumption at the PDU inlet, and a local display to navigate the measured values of volts, amps, watts, VA, VAR, power factor, and frequency.

The internal monitoring hardware measures power data approximately every three seconds. This can be viewed on the local display, or retreived over Ethernet using one of the supported networking protocols.

Additionally, the 8 Series software can monitor up to four setpoints (low critical, low warning, high warning, high critical) for both amps and volts. Alerts can be automatically sent to multiple users via email or SMS, and to an SNMP trap server. Setpoint events are also logged in the PDU. Since the measurement is at the inlet (not the internal branch circuits), the current setpoints can be used to warn when the total load is reaching the limit of the upstream breaker.

5 Series Power Meter

- Standard on 520 Series
- Unavailable on other 5 Series

The 520 Series power meter provides digital display of voltage, current, active power, and power factor for the total load on the power inlet. Any measurement can be displayed on demand or set for continuous rotation through all four. Additionally, the display is easily configured to power up with any one of the measurements as the default value, or with continuous rotation as the default mode.

3 Series V/A Display

Available on some 320 and 329 Series

Several 3 Series models include a basic display for Volts RMS and Amps RMS measured at the inlet. The meter will auto rotate every 5 seconds between the volts and amps values. Volts are shown as whole numbers. Amps are shown with one decimal place. Both values are $\leq \pm 2\%$, and are recalculated every 15 seconds.



The power monitoring feature measures and displays V, A, W, VA, VAR, PF, and Hz. It's a useful tool for understanding how much of the PDU's capacity is being used. Additionally, for energy conscious environments, it can be used to measure the power consumption and efficiency of attached equipment. All data is available remotely over Ethernet through the web UI, command line, SNMP, and RESTful API.

The 520 Series power meter displays V, A, W, and PF. It's a useful tool for understanding the amount of PDU capacity being used, and net efficiency of the load



The 3 Series digital meter auto-rotates between displaying amps and volts.





8 Series RCM Software Highlights

Networking

Software Features

Ethernet 10/100T

• IPv4: DHCP, Static

Web Interface

• HTTP, HTTPS

Command Line Interface

• Telnet, SSH, RS-232

SNMP

 Access to power data, alarms, outlet switching

Alerts

- Email over SMTP
- SMS over SMTP
- SNMP v2/v3 Traps

Scriptability

- RESTful API
- Telnet/SSH
- SNMP

Other Protocols

• SNTP, SNMP, FTP

Power Management

Inlet Phases*

- Volts RMS
- Volts Alarm State
- Amps RMS
- Amps Alarm State
- Amps Percent Consumed
- Watts
- Voltamps
- Voltamps Reactive
- Power Factor
- Frequency

Outlets

- On/Off State
- User defined outlet label
- Individual On Delay
- Individual Off Delay
- Individual Cycle Delay
- Individual Startup State
- Power monitoring available for 1φ and 3φ wye units. Current monitoring available for 3φ delta.

Dashboard

- Displays all phase currents
- Displays all phase voltages (1φ, 3φ wye)
- · Displays alarm state indicators
- Outlet on/off control and state

Power Configuration

- Outlet on / off / cycle delays
- Outlet startup state (on, off, last known)
- Current setpoints for phases
- Voltage setpoints for phases
- · User-defined labels for inlets and outlets

Power and Environment Alarm Setpoints

- Low Critical, Low Warning
- High Warning, High Critical
- · Adjustable hysterisis and debounce time

Alert Configuration

- Each setpoint alarm can be sent to one or more users as Email and/or SMS notifications
- Adjustable re-alert interval
- Adjustable alert silence duration
- · Alerts automatically broadcast on SNMP

User Configuration

- Profile fields for company, job role, and contact information
- Granular authorization permissions control exactly what an individual user can do

Network Configuration

- IPv4: DHCP, Static
- · HTTP session duration, SSL, ports
- · SNTP servers, GMT and DST settings
- FTP on/off, port
- SMTP server and authentication
- SNMP port, community strings, trap server
- SNMP USM accounts (four)
- · Telnet and SSH enabled and ports

Logged Events

- Startup time, restart requests
- Outlet state changes
- Setpoint trips (amps, volts, temperature, humidity)
- Alert preparation, alert sucess
- User login
- Configuration and firmware changes
- Log display filtered by severity and category

System

· PDU label, location, asset ID, and contact

Power configuration includes several outlet switching features, and flexible setpoints for power alarms.

hlets	Pha	ses Ou	tiets											
utlet	Setti	ngs : All										? Re	vert (Save
ID	Outlet	Label			witch D in Seco Off	nds	9	tartup State	State Change Alertable					
1	Contr	ol Panel		0.0	0.0	5.0	On		•					
2	DAQ	Chassis		0.0	0.0	5.0	On		8					
3	DB Se	rver		0.0	0.0	5.0	On		۵					
4	BU ^	Inlets	Phases	Outlets	0.0	5.0	On		8					
5	Mai	Phase Se	ttings : A	11			1.00	-	-				7	Revert)
6	Mor		-											
7	1912	[1] Inlet	1 Setpoint	Low		Dav.	High	High	Ala			rm.		
8	M2	reads	Units	Critical		ming	Warning	Critical	Hyste			unce		
9	Out	A, B, C	Amps				24.00	28.50	0.5	amps	4.5	secs		
10	1	AN, BN, C	V Volts	100.0	112	1.0	126.0	130.0	3.0	volts	4.5	secs		
		17	-		-		-	-	-	-	-	-	-	
nang	e All (Dutlets											0	(pply)
ionfigu iame v	ration fie alue. Pre	i set one or r lds of all out ss Apply to u	Sets to the update the	in	ch Dela Second Off C	5	Star Sta	tup ite	State Change Alertabl					
		ove. Values a	re not pressed.				Chosse.	-	Choose	_				

Up to 20 users with independent login and granular permissions provide control over specific protocols, configure outlets, configure networking, and more.

est Bay 2 I&D 112, Rack 3				Feb 15 2022 00:32-49 Pt			
List User Details							
Users : lester (Les	ter Tester)		(?) (Test Alert Bevert Save			
Settings marked with	* are required.						
Authentication			Privileges				
Login Name	lester		Power Settings	Network Settings			
Password * (Rules)			View Power Settings	View Network Settings			
Password Again * Password Hint * p8		Control Outlets	Edit TCP/IP Edit HTTP Edit Teinet				
		C Edit Phases					
Access Methods			Edit Inlets	C Edit SSH			
			Environment Settings	C Edit SNTP			
Allow Login To		s, REST (http://https)	View Settings	Edit SMTP Edit SNMP			
		Line (telnet, ssh)	Z Edit Settings				
File System (tp)			Alert Settings	Users Settings			
Personal Profile			View Alerts	 View Users Edit Users 			
First & Last Name	Lester	Tester	C Edit Alerts				
Email Address	les/Rtest.com		Logs Settings	System Settings			
SMS Aridress		@txt.telco.net	View Logs, Settings	View System Settings Edit System Settings			
			Clear Logs, Edit Settings	Can of stand of any s			
Company Name	Bit Bangers, L		Person and discovery many has forward as	nabled as a dependency or companion to			
Job Role	Infra Destruct		other privileges which are enable	d. For example, a View privilege will be			
Company Phone Direct Phone	999-586-64		enabled if a companion Edit privi	lege is enabled.			
	999-586-3264						

A rich command line interface provides access to all power data, and all configurable settings.





Series Comparison of 1U Models

Use this table to help determine which series has what you need. Use the detailed models lists in the Standard Products Catalog to determine which exact model has the most appropriate combination of features.

	320 • 1U	520 • 1U	820 • 1U	
Ethernet Networking	None	None	Standard	
Current Capacities [1]	12/15 A 16/20 A 24/30 A	12/15 A 16/20 A 24/30 A	12/15 A 16/20 A 24/30 A	
Input Voltages ^[2]	120 Vac 100-240 Vac 1-phase	120 Vac 110–240 Vac 200–240 Vac 1-phase	120 Vac 110-240 Vac 200-240 Vac 1-phase	
Inlet Types ^[2]	9 ft. cable with 5-15P, 5-20P, L5-30P, L6-30P, or C20 Rear panel	9 ft. cable with 5-15P, 5-20P, L5-20P, L5-30P, L6-30P, or C20 Rear panel	9 ft. cable with 5-15P, 5-20P, L5-20P, L5-30P, L6-20P, L6-30P, or C20 Rear panel	
Outlet Types [3]	All 5-15R All 5-20R All C13 Mixed C13, C19	Ali 5-15R Ali 5-20R Ali C13	All 5-15R All 5-20R All C13	
Outlet Counts [3]	12 or 14 or 16 total	12 total	9 total	
Main Breaker	Some models have a single breaker, some have two breakers	Standard	Standard	
Main Power Indicator	Standard	Standard	Standard	
Branch Breakers [1]	(see Main Breaker)	None	None	
Surge Suppression	Standard	Standard	Standard	
EMI Filter	Standard	Standard	Standard	
Remote On/Off/EPO [4]	None	Standard	Standard	
Staggered Start	None	Standard	Per Outlet Delay	
Remote Switching	None	On/Off/EPO Bus	Ethernet, On/Off/EPO Bus	
Inlet Metering / Phase	V, A local meter on some models	Standard, Local V, A, W, PF	Std. Local & Remote V, A, HZ W, VA, VAR, PF	
Operating conditions	32-122°F	• 5-85% R.H. • < 6,562	t. altitude	
Conformances	UL • CE • RoHS • REACH	UL•TAA	UL•TAA	

[2] Where multiple options are shown, only one is applicable to any given unit.

[3] Some series offer a range of pre-defined mixes of outlets. Not all outlets are available in arbitrary combinations.

[4] The remote On/Off/EPO system is a communication bus for the separate Commander UCP product line.

[5] The multiple branch breakers provide inrush overhead instead of staggering the powering of outlets.



Series Comparison of 2U and 3U Models

Use this table to help determine which series has what you need. Use the detailed models lists in the Standard Products Catalog to determine which exact model has the most appropriate combination of features.

	532 • 2U	533 • 3U	833 • 3U	
Ethernet Networking	None	None	Standard	
Current Capacities [1]	24/30 A	24/30 A	24/30 A	
Input Voltages [2]	120/208 Vac 3-phase Wye	120/208 Vac 3-phase Wye	120/208 Vac 3-phase Wye	
Inlet Types [2]	L21-30P/9 ft. cable L21-30 Flanged Rear panel Front Panel	L21-30P/9 ft. cable L21-30 Flanged Rear panel Front Panel	Rear panel L21-30P/9 ft. cable, Front Panel L21-30 Recessed	
Outlet Types [3]	A mixed set from: 5-20R, 6-20R, L5-20R, L5-30R, L6-20R, L6-30R, L21-30	A mixed set from: 5-20R, L5-20R, L5-30R, L6-20R, L6-30R, L21-30	A mixed set from: 5-20R, L5-20R, L5-30R, L6-20R, L6-30R, L21-30	
Outlet Counts [3]	11 total	16 total or 15 total	18 total or 17 total	
Main Breaker	Standard	Standard	Standard	
Main Power Indicator	Standard	Standard	Standard	
Branch Breakers [1]	(4) 16/20 A	(8) 16/20 A	(5) 16/20 A or (6) 16/20 A	
Surge Suppression	Standard	Standard	Standard	
EMI Filter	Standard	Standard	Standard	
Remote On/Off/EPO [4]	Standard	Standard	Standard	
Staggered Start	None ^[5]	None ^[5]	Per Outlet Delay	
Remote Switching	On/Off/EPO Bus	On/Off/EPO Bus	Ethernet, On/Off/EPO Bus	
Inlet Metering / Phase	None	None	Std. Local & Remote V, A, HZ W, VA, VAR, PF	
Operating conditions	32-122	°F•5-85% R.H.•<6,562 f	t. altitude	
Conformances	UL•TAA	UL•TAA	TAA • (UL ⁶)	

[2] Where multiple options are shown, only one is applicable to any given unit.

[3] Some series offer a range of pre-defined mixes of outlets. Not all outlets are available in arbitrary combinations.

[4] The remote On/Off/EPO option is a communication bus for the separate Commander UCP product line.

[5] The multiple branch breakers provide inrush overhead instead of staggering the powering of outlets.

[6] Designed and manufactured to UL 623681, but not yet certified.



Series Comparison of 0U Models

Use this table to help determine which series has what you need. Use the detailed models lists in the Standard Products Catalog to determine which exact model has the most appropriate combination of features.

	329 • OU	529 • OU	539 • OU	829 • OU	
Ethernet Networking	None	None	None	Standard	
Current Capacities [1]	12/15 A 16/20 A 24/30 A	12/15 A 16/20 A 24/30 A	16/20 A 24/30 A	16/20 A 24/30 A	
Input Voltages ^[2]	120 Vac 100-240 Vac 1-phase	120 Vac 110-240 Vac 200-240 Vac 1-phase	120/208 Vac 3-phase Wye	120 Vac 110-240 Vac 200-240 Vac 1-phase	
Inlet Types [2]	9 ft. cable with 5-20P, L5-30P, L6-30P, or C20	9 ft. cable with 5-15P, 5-20P, L5-20P, L5-30P, L6-30P, or C20	L21-20P/9 ft. cable L21-30P/9 ft. cable	9 ft. cable with 5-20P, L5-20P L6-20P, L6-30P or C20	
Outlet Types [3]	All 5-20R, or Mixed C13/C19	All 5-15R, or All 5-20R, or Mixed C13/C19	All 5-20R, or Mixed C13/C19	All 5-20R, or Mixed C13/C19	
Outlet Counts [3]	15 or 30 total	42, 36, 21, or 18 total	42, 36, 21, or 18 total	24 total	
Main Breaker	Some models have a single breaker, some have two breakers	Standard	None	Standard	
Main Power Indicator	Standard	Standard	(3) Phase Indicators	Standard	
Branch Breakers [1]	(see Main Breaker)	None	(3) 16/20 A	Up to 3	
Surge Suppression	Standard	None	None	Standard	
EMI Filter	None	None	None	None	
Remote On/Off/EPO [4]	None	None	None	None	
Staggered Start	None	None	None	Per Outlet Delay	
Remote Switching	None	None	None	Ethernet	
Inlet Metering / Phase	Standard V, A	None	None	Std. Local & Remote V, A, HZ W, VA, VAR, PF	
Operating conditions		32-122°F	• 5-85% R.H. • < 6,562 t	ft. altitude	
Conformances	UL•CE•RoHS•REACH	UL • TAA	UL•TAA	TAA • (UL ⁶)	

[1] Current data is shown in Continuous/Maximum Amps where the former is the 80% NEC rating rule.

[2] Where multiple options are shown, only one is applicable to any given unit.

[3] Some series offer a range of pre-defined mixes of outlets. Not all outlets are available in arbitrary combinations.

[4] The remote On/Off/EPO option is a communication bus for the separate Commander UCP product line.

[5] The multiple branch breakers provide inrush overhead instead of staggering the powering of outlets.

[6] Designed and manufactured to UL 623681, but not yet certified.





Optima[™] PDUs Custom and Standard for Ac, Dc, 400Hz



TwinPower[™] ATSs Auto Transer Switches for power redundancy



Commander[™] UCPs Remote and EPO control panels



PowerPlus[™] Turn-key rack power integration

Contact Our Power Specialists info@marway.com • 800-462-7929

Marway is a HEICO Electronic Technologies company.

