

# WHEN PERFORMANCE MATTERS



**DC POWER SUPPLIES**



**Acme Electric**

The First Name in Power Solutions

# THE PEOPLE AT ACME MAKE IT HAPPEN

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**When you need big power in a small space - turn to the first name in power solutions.**

Acme Electric did not become a leader in power quality by accident. Acme earned its reputation for innovation and service by understanding the power needs of customers and responding with unprecedented product capabilities in a wide range of offerings. With a passion for delivering the most reliable and efficient power solutions available, you'll find the people at Acme involved every step of the way – from initial concept and design all the way through to testing and final production. But the participation doesn't end there – that's only the beginning.

Acme understands that serving the needs of today's businesses means having exactly what you need, when you need it – being prepared to ship out quality products at a moment's notice. You say you need it tomorrow? Acme says, "No problem!"

Acme Electric brings more than seventy-five years of application expertise to every question, concern, and challenge that may arise after a sale, too. See for yourself. Discover the level of technical support and customer service that are rated second to none.

**Acme gives you the power you need to succeed.**

**Power Quality | Application Expertise**

**Industry-Leading Technical Support | Off-the-Shelf Availability**





# IT'S ALL ABOUT UPTIME. EXPERIENCE MORE WITH THE DM SERIES.

Time is money – and in no place does this ring more true than in the manufacturing arena, where periods of downtime can drastically affect a company's bottom line. Today's world is all about doing things as efficiently as possible with the least amount of resources. When you're expected to do more with less, Acme's DIN Rail mount DM series is a power supply you can trust. Designed for demanding industrial environments, the DM performs with a rugged reliability that will not fail to ensure maximum uptime.

You need a power supply that can do the job – Acme delivers.

## **Applications:**

- Industrial/Machine control
- Process control
- Conveying equipment
- Material handling
- Packaging
- Robotics
- Welding





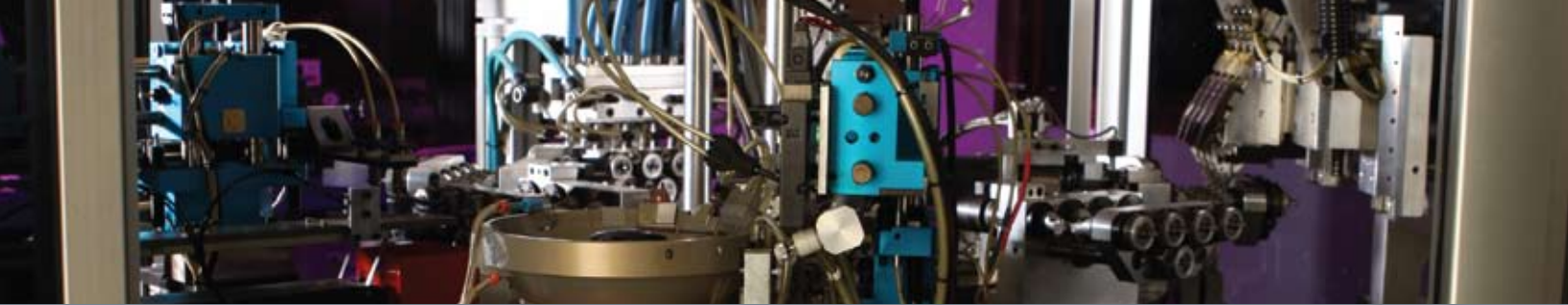
# SAVE SPACE AND MONEY – IN A SNAP

**When flexibility is what's called for, Acme Electric has the options.** Choose from 15 through 960 watts and 5 through 48 VDC output in single phase, slimline single phase, three phase, or plastic models. These economically priced, highly efficient power supplies are cULus listed and CE certified for use worldwide, UL 508 listed for use at full-rated power, operate in a wide range of temperatures, and come with a five-year warranty.

Most models are capable of parallel connection to provide redundancy for mission-critical load applications. If one power supply stops working, adequate power reserve in the remaining unit will continue to support the load.

The DM series DC power supplies install quickly and easily on the DIN Rail – no tools required!





# PROVEN POWER IN A SMALL FOOTPRINT

DC power now comes in a smaller package. Our slimline single phase models measure as small as 32 mm wide to conserve valuable space on the DIN Rail and in the overall control cabinet!

## DM Series Features:

Universal input eliminates voltage gaps for full product application versatility

Adjustable output voltage compensates for voltage drop

"DC OK" LED indicator identifies local output status

IP20 Touchsafe rating



Compact, narrow design provides significant space savings

Industrial design with rugged metal case and mounting clip makes installation easy

Power factor correction minimizes harmonic distortion



## Additional DIN Rail Products

### DM Duplex Receptacle

Part No. DRR-15 (15 Amp)

Part No. DRR-15GFI (15 Amp-GFI)

Provides safe access power for testing and maintenance

# PRODUCT SPECIFICATIONS

All units are cULus Listed and CE Certified.

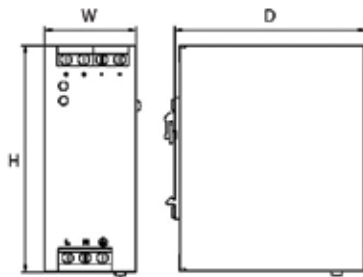


## Single Phase

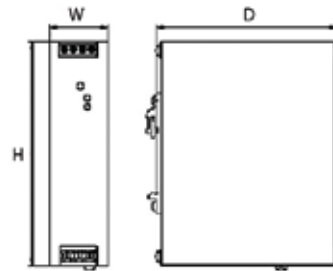
| Catalog No. | Output Power (Watts Max) | Amp Rating  | Voltage Range AC | Voltage Range DC | Output Voltage         | Efficiency (1) | Operating Temp | Dimensions H*W*D Inches (mm)         | Weight LBS (Kg) |
|-------------|--------------------------|-------------|------------------|------------------|------------------------|----------------|----------------|--------------------------------------|-----------------|
| DM 1-12045  | 54 W                     | 4.5 - 3.4   | 90-254 VAC       | -                | 12 VDC (10-16 adj)     | 86%            | -10°C to +60°C | 4.88 x 1.97 x 4.13 (124 x 50 x 105)  | 1.08 (0.49)     |
| DM 1-24025  | 60 W                     | 2.5 - 2.1   | 90-254 VAC       | -                | 24 VDC (22-28 adj)     | 87%            | -10°C to +60°C | 4.88 x 1.97 x 4.13 (124 x 50 x 105)  | 1.08 (0.49)     |
| DM 1-24038  | 92 W (LPS)               | 3.8         | 90-254 VAC       | -                | 24 VDC (22.5-25.5 adj) | 87%            | -10°C to +60°C | 4.88 x 2.56 x 4.13 (124 x 65 x 105)  | 1.76 (0.80)     |
| DM 1-2420   | 480 W                    | 20.0 - 17.1 | 90-254 VAC       | -                | 24 VDC (22-28 adj)     | 90%            | -10°C to +60°C | 5.12 x 6.14 x 4.96 (130 x 156 x 126) | 4.96 (2.25)     |
| DM 1-2440   | 960 W                    | 40.0        | 90-264 VAC       | 120-350 VDC      | 24 VDC (22.5-28.5)     | 91.5%          | -10°C to +60°C | 5.12 x 9.29 x 4.96 (130 x 236 x 126) | 8.82 (4.00)     |
| DM 1-3613   | 480 W                    | 13.3 - 12.0 | 90-254 VAC       | -                | 36 VDC (34-40 adj)     | 90%            | -10°C to +60°C | 5.12 x 6.14 x 4.96 (130 x 156 x 126) | 4.96 (2.25)     |
| DM 1-480125 | 60 W                     | 1.25 - 1.15 | 90-254 VAC       | -                | 48 VDC (46-52 adj)     | 89%            | -10°C to +60°C | 4.88 x 1.97 x 4.13 (124 x 50 x 105)  | 1.08 (0.49)     |
| DM 1-4810   | 480 W                    | 10.0 - 9.2  | 90-254 VAC       | -                | 48 VDC (46-52 adj)     | 90%            | -10°C to +60°C | 5.12 x 6.14 x 4.96 (130 x 156 x 126) | 4.96 (2.25)     |

Frequency: 47-63 Hz for all models

1. Depends upon specific model selection, output voltage and/or upon 120 or 240 VAC operation.



Single Phase



Slimline

## Slimline Single Phase

| Catalog No.  | Output Power (Watts Max) | Amp Rating | Voltage Range AC | Output Voltage     | Efficiency (1) | Operating Temp     | Dimensions H*W*D Inches (mm)         | Weight LBS (Kg) |
|--------------|--------------------------|------------|------------------|--------------------|----------------|--------------------|--------------------------------------|-----------------|
| DM 1-1206-S  | 72 W                     | 6.0 - 4.8  | 90-264 VAC       | 12 VDC (12-15 adj) | 87%            | -20°C to +60°C     | 4.88 x 1.26 x 4.02 (124 x 32 x 102)  | 0.92 (0.42)     |
| DM 1-1208-S  | 96 W                     | 8.0 - 6.4  | 90-264 VAC       | 12 VDC (12-15 adj) | 89%            | -20°C to +60°C     | 4.88 x 1.57 x 4.45 (124 x 40 x 113)  | 1.37 (0.62)     |
| DM 1-1215-S  | 180 W                    | 15.0       | 90-264 VAC       | 12 VDC (12-15 adj) | 88%            | -20°C to +60°C (1) | 4.88 x 2.36 x 4.45 (124 x 60 x 113)  | 1.98 (0.9)      |
| DM 1-24033-S | 80 W                     | 3.4 - 2.8  | 90-264 VAC       | 24 VDC (24-28 adj) | 90%            | -20°C to +60°C     | 4.88 x 1.26 x 4.02 (124 x 32 x 102)  | 0.92 (0.42)     |
| DM 1-2405-S  | 120 W                    | 5.0 - 4.3  | 90-264 VAC       | 24 VDC (24-28 adj) | 91%            | -20°C to +60°C     | 4.88 x 1.57 x 4.45 (124 x 40 x 113)  | 1.37 (0.62)     |
| DM 1-2410-S  | 240 W                    | 10.0       | 90-264 VAC       | 24 VDC (24-28 adj) | 92%            | -20°C to +60°C (1) | 4.88 x 2.36 x 4.45 (124 x 60 x 113)  | 1.98 (0.9)      |
| DM 1-2420-S  | 480 W                    | 20.0       | 90-264 VAC       | 24 VDC             | 91%            | -20°C to +60°C     | 5.12 x 4.02 x 5.70 (130 x 102 x 145) | 4.4 (2.0)       |
| DM 1-48017-S | 80 W                     | 1.7 - 1.4  | 90-264 VAC       | 48 VDC (48-56 adj) | 90%            | -20°C to +60°C     | 4.88 x 1.26 x 4.02 (124 x 32 x 102)  | 0.92 (0.42)     |
| DM 1-48025-S | 120 W                    | 2.5 - 2.1  | 90-264 VAC       | 48 VDC (48-56 adj) | 91%            | -20°C to +60°C     | 4.88 x 1.57 x 4.45 (124 x 40 x 113)  | 1.37 (0.62)     |
| DM 1-4805-S  | 240 W                    | 5.0        | 90-264 VAC       | 48 VDC (48-56 adj) | 92%            | -20°C to +60°C (1) | 4.88 x 2.36 x 4.45 (124 x 60 x 113)  | 1.98 (0.9)      |
| DM 1-4810-S  | 480 W                    | 10.0       | 90-264 VAC       | 48 VDC             | 92%            | -20°C to +60°C     | 5.12 x 4.02 x 5.70 (130 x 102 x 145) | 4.4 (2.0)       |

Frequency: 47-63 Hz for all models

1. Depends upon specific model selection, output voltage and/or upon 120 or 240 VAC operation.

# WHERE POWER AND SAVINGS CONNECT

## PRODUCT SPECIFICATIONS

All units are cULus Listed and CE Certified.

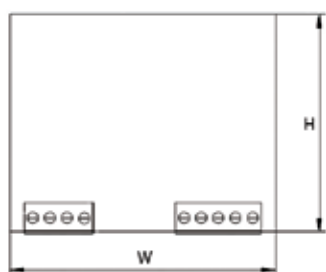


### Three Phase - Available Q2 2009

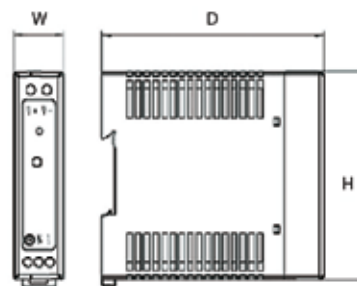
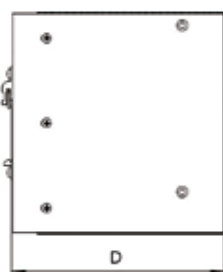
| Catalog No. | Output Power (Watts Max) | Amp Rating  | Voltage Range AC | Voltage Range DC | Output Voltage     | Efficiency | Operating Temp | Dimensions H*W*D Inches (mm)         | Weight LBS (Kg) |
|-------------|--------------------------|-------------|------------------|------------------|--------------------|------------|----------------|--------------------------------------|-----------------|
| DM 3-2405   | 120 W                    | 5.0 - 4.3   | 340-575 VAC      | 450-820 VDC      | 24 VDC (24-28 adj) | 89%        | -10°C to +60°C | 4.96 x 2.56 x 4.65 (126 x 65 x 118)  | 1.65 (0.75)     |
| DM 3-2410   | 240 W                    | 10.0 - 8.6  | 340-575 VAC      | 450-820 VDC      | 24 VDC (24-28 adj) | 89%        | -10°C to +60°C | 5.12 x 3.43 x 4.96 (130 x 87 x 126)  | 2.76 (1.25)     |
| DM 3-2420   | 480 W                    | 20.0 - 17.1 | 340-575 VAC      | 450-820 VDC      | 24 VDC (24-28 adj) | 90%        | -10°C to +60°C | 5.12 x 6.14 x 4.96 (130 x 156 x 126) | 4.85 (2.20)     |

Frequency: 47-63 Hz for all models

1. Depends upon specific model selection, output voltage and/or upon 120 or 240 VAC operation.



Three Phase



Plastic

### Plastic

| Catalog No. | Output Power (Watts Max) | Amp Rating  | Voltage Range AC | Output Voltage      | Efficiency | Operating Temp | Dimensions H*W*D Inches (mm)         | Weight LBS (Kg) |
|-------------|--------------------------|-------------|------------------|---------------------|------------|----------------|--------------------------------------|-----------------|
| DMPI-504    | 20 W                     | 4.4 - 3.64  | 90-264 VAC       | 5 VDC (4.5-5.5 adj) | 75%        | -10°C to +50°C | 3.54 x 0.90 x 4.02 (90 x 22.8 x 102) | 0.35 (0.16)     |
| DMPI-120125 | 15 W                     | 1.25 - 1.07 | 90-264 VAC       | 12 VDC (10-14 adj)  | 78%        | -10°C to +50°C | 3.54 x 0.90 x 4.02 (90 x 22.8 x 102) | 0.29 (0.13)     |
| DMPI-12025  | 30 W                     | 3.0 - 2.14  | 90-264 VAC       | 12 VDC (10-14 adj)  | 84%        | -10°C to +50°C | 3.54 x 0.90 x 4.02 (90 x 22.8 x 102) | 0.35 (0.16)     |
| DMPI-1204   | 50 W                     | 5.0 - 3.57  | 90-264 VAC       | 12 VDC (10-14 adj)  | 83%        | -10°C to +50°C | 3.54 x 1.26 x 4.02 (90 x 32 x 102)   | 0.51 (0.23)     |
| DMPI-1502   | 30 W                     | 2.14 - 1.67 | 90-264 VAC       | 15 VDC (14-18 adj)  | 84%        | -10°C to +50°C | 3.54 x 0.90 x 4.02 (90 x 22.8 x 102) | 0.35 (0.16)     |
| DMPI-24006  | 15 W                     | 0.68 - 0.54 | 90-264 VAC       | 24 VDC (22-28 adj)  | 81%        | -10°C to +50°C | 3.54 x 0.90 x 4.02 (90 x 22.8 x 102) | 0.29 (0.13)     |
| DMPI-240125 | 30 W                     | 1.36 - 1.07 | 90-264 VAC       | 24 VDC (22-28 adj)  | 85%        | -10°C to +50°C | 3.54 x 0.90 x 4.02 (90 x 22.8 x 102) | 0.35 (0.16)     |
| DMPI-2402   | 50 W                     | 2.27 - 1.79 | 90-264 VAC       | 24 VDC (22-28 adj)  | 85%        | -10°C to +50°C | 3.54 x 1.26 x 4.02 (90 x 32 x 102)   | 0.51 (0.23)     |
| DMPI-4801   | 50 W                     | 1.09 - 0.96 | 90-264 VAC       | 48 VDC (46-52 adj)  | 85%        | -10°C to +50°C | 3.54 x 1.26 x 4.02 (90 x 32 x 102)   | 0.51 (0.23)     |

Plastic units not TUV certified.

Frequency: 47-63 Hz for all models

1. Depends upon specific model selection, output voltage and/or upon 120 or 240 VAC operation.

# GO BEYOND THE DIN RAIL WITH ACME LINEAR POWER SUPPLIES

Acme Electric offers both unregulated and regulated linear power supplies to meet your most critical industrial requirements. Featuring an open-frame construction, these power supplies are packed with analog circuit efficiency.

## Applications:

DC motors • DC relays • Industrial machinery • Battery chargers • Solenoids

## UNREGULATED LINEAR POWER

### BLACKLINE SERIES

100 watts to 750 watts bulk DC linear power



## Features/Benefits:

- » High initial start up in-rush surge current to power DC motors and electromechanical devices
- » Floating output allows positive or negative ground reference
- » Computer grade capacitors result in lower output ripple
- » High efficiency transformer provides up to 90 percent efficiency
- » MTBF to 500,000 hours per MIL 217E
- » UL recognized to UL 1950
- » Meets FCC Level B EMI

## Electrical Specifications:

- » AC Input:
  - Input voltage selectable by transformer taps for 115 or 230 VAC (10 percent taps are provided)
- » DC Output:
  - Voltage ratings: 7, 12, 16, 20, 24, 48 volts
  - Maximum ripple: 3 percent rms at nominal line voltage, at full rated load



| CATALOG NO. | TYPICAL VDC OUTPUT<br>(@ 115 VAC IN) |           |           | AMPS<br>FULL LOAD |
|-------------|--------------------------------------|-----------|-----------|-------------------|
|             | NO LOAD                              | HALF LOAD | FULL LOAD |                   |
| 100B7HA     | 10.6                                 | 8.8       | 7.9       | 10.0              |
| 100B12HA    | 14.8                                 | 12.9      | 11.7      | 7.0               |
| 100B20HA    | 23.3                                 | 20.8      | 19.3      | 5.0               |
| 100B24HA    | 30.6                                 | 27.5      | 25.4      | 3.5               |
| 100B48HA    | 56.3                                 | 51.0      | 47.9      | 1.8               |
| 200B7HA     | 12.3                                 | 9.5       | 8.2       | 20.0              |
| 200B12HA    | 15.4                                 | 12.5      | 11.3      | 15.0              |
| 200B20HA    | 26.8                                 | 22.5      | 20.3      | 10.0              |
| 200B24HA    | 34.4                                 | 29.5      | 27.1      | 7.5               |
| 200B48HA    | 58.9                                 | 48.2      | 46.5      | 4.0               |
| 500B24HA    | 31.0                                 | 28.4      | 26.7      | 20.0              |
| 500B48HA    | 59.7                                 | 50.2      | 47.8      | 10.0              |
| 750B24HA    | 33.3                                 | 27.7      | 25.5      | 30.0              |
| 750B48HA    | 58.5                                 | 49.7      | 48.5      | 15.0              |



## REGULATED LINEAR POWER

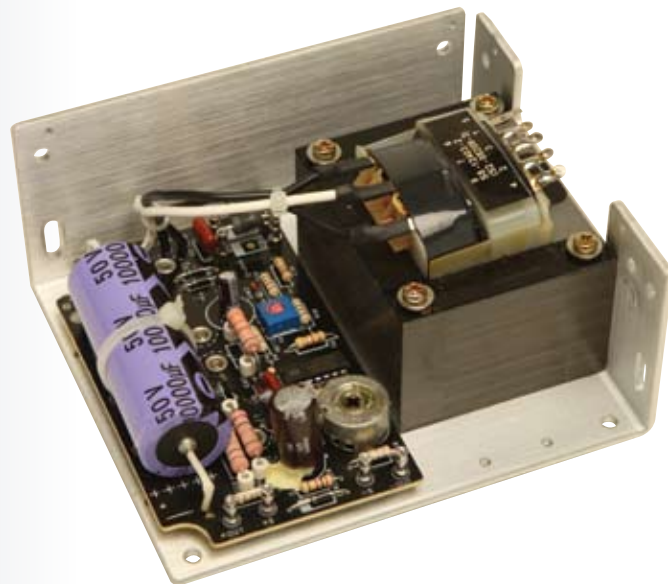
### SPW SERIES

15 watts to 175 watts



#### Features/Benefits:

- » Worldwide AC input range
- » Worldwide safety standards - recognized to UL, CSA certified, and CE listed
- » Overload protection with automatic recovery
- » 100% burn-in ensures long-term quality
- » Built-in OVP on 5V output
- » UL recognized to UL 1950
- » Industry standard mounting and dimensions



#### Electrical Specifications:

- » AC Input:
  - Input voltage: 100/120/220/230/240 selectable
  - Input frequency: 47 to 63 Hz, typical 60 Hz
- » DC Output:
  - Output adjustment range: +/- 5 percent minimum

| CATALOG NO. | OUTPUT 1 |      |
|-------------|----------|------|
|             | VDC      | AMPS |
| SPWS-53-0V  | 5        | 3.0  |
| SPWS-1217   | 12       | 1.7  |
| SPWS-2412   | 24       | 1.2  |
| SPWS-2424   | 24       | 2.4  |
| SPWS-2436   | 24       | 3.6  |
| SPWS-2448   | 24       | 4.8  |
| SPWS-2472   | 24       | 7.2  |



## REGULATED LINEAR POWER

### SPS BLUELINE SERIES

7.5 watts to 144 watts



#### Features/Benefits:

- » Remote sense capability on output compensates for voltage drop
- » Overload protection with automatic recovery
- » Overvoltage protection provided on all models
- » Recognized to UL and CSA certified

#### Electrical Specifications:

- » AC Input:
  - Input voltage: 120/240 VAC on most models
  - Input frequency: 50/60 Hz
- » DC Output:
  - Output voltage/current: See selection chart
  - Voltage adjustment range: +/- 5 percent minimum



| CATALOG NO.    | OUTPUT |         |
|----------------|--------|---------|
|                | VDC    | AMPS    |
| SPS 3012       | 12     | 1.8     |
| SPS 6012       | 12     | 5.0     |
| SPS 12012      | 12     | 10.0    |
| (*) SPS 152428 | 24/28  | 0.8/0.6 |
| SPS 302428     | 24/28  | 1.2/1.0 |
| SPS 602428     | 24/28  | 2.5/2.0 |
| SPS 1202428    | 24/28  | 6.0/5.0 |

Output is potentiometer adjustable.  
 \* 120 VAC operation only.

# UP CLOSE AND PERSONAL SERVICE FROM THE PEOPLE WHO KNOW POWER

Acme's technical experts are a team of specialists with the training and knowledge you expect from a power supply leader. They understand real-world applications and will provide you with all the information and assistance needed to address your specific situation. Place your trust in the team that is eager to serve you by drawing on its extensive experience.

*What output voltages are available?*

*Do all power supplies require an AC ground?*

*What input ranges can I use?*



## POWER DISTRIBUTION AND POWER QUALITY IS ONLY ONE OF OUR SPECIALTIES.

As the leading provider of electrical and electronic power conversion technologies, Acme Electric Corporation provides an endless array of product offerings to industries across the globe. The Acme product portfolio includes Acme brand power distribution and power quality products for diverse manufacturing operations, AMVECO brand toroids for the most demanding medical and military applications, and Actown customized magnetics for the most challenging implementations. In short, Acme offers the widest scope of product design and manufacturing capabilities under one umbrella.

Acme Electric Corporation is an Actuant Company.





**ACME**  **ELECTRIC**

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To learn more about the DM Series DIN Rail power supplies, visit [www.acmedinps.com](http://www.acmedinps.com).

For information on other Acme Electric products, visit [www.acmepowerdist.com](http://www.acmepowerdist.com).