

Midwest Electric Products, Inc.



Quality Weatherproof Electrical Equipment

marina products catalog



Available Models:



DockPro

- Thermoplastic NEMA 3R enclosure with aluminum extrusion frame
- Power under same door
- Phone & TV under separate flipcover
- 360° florescent or incandescent lighting for better visibility
- Electronic metering option
- Woter shroud is included
- UL & CUL listed ®
- Receptocles con be metered separately per special request.



DockMaster

- Injection molded GE thermoplastic
- Power, phone & TV under some door
- Energy saving fluorescent light & photocell
- Electronic metering option
- Water shroud is included
- Crisp, clean appearance
- UL & CUL listed ®



DockMate

- Power center for Dockbox (head only)
- Post or surface units
- Injection molded GE thermoplostic
- Electronic metering option
 - Water shroud option
- Energy saving fluorescent light & photocell
- UL & CUL listed ®
- Pedestal galvanized or stainless steel (painted)



Dockhand

- Compact, durable and economical
- Painted galvanized steel
- Post or surface units
- 4 Jaw meter socket option or Unmetered
- UL & CUL listed ®



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Application Information

Today, most marinas and boat docks also provide shore power for their tenants. Midwest provides a choice, based on an area's weather conditions, along with receptocle versatility and rugged construction, while retaining an aesthetic appearance. The 2007 National Electrical Code requires:

555-19 Receptocles: Receptocles that provide shore power for boats are required to be single and of the locking and grounding types.

555-17 Disconnecting Means: A readily accessible disconnecting means shall be provided by which each boat can be isolated from its circuit supply.

555-19(3) Branch Circuits: Each single receptacle that supplies shore power to boats shall be supplied from a power outlet or panel board by an individual branch circuit of the voltage class and rating corresponding to the rating receptacle.

555-15(A) Equipment to be Grounded: The following items shall be connected to the equipment grounding conductor run with the circuit conductors in a raceway or cable:

- Boxes, cabinets and all other metal enclosures
- 2. Metal frames of utilization equipment
- Grounding terminals of grounding type receptacles

Midwest Electric offers a complete line of metered and unmetered power outlets for marina applications. All Midwest marina power outlets utilize corrosion resistant, grounding and locking type receptacles with individual circuit breaker protection enclosed in a single, easy-to-install enclosure. The different styles of construction in the products we manufacture include:

- Non-metallic power centers DockPro, Dockmaster and Dockmate
- Metallic power centers Dockhand, featuring galvanized steel construction



Marina Products

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DockPro

Newest Product Family

The newest member of the Midwest Electric family of marina products, continues with the tradition of providing safe and reliable electrical service in an economic package. Introduced as a new product in 2002, the DockPro offers all the features and benefits found in the Dockmaster, but at less cost. With the introduction of the DockPro, along with our DockPro dock lights, we are creating a family of products using the same design style, which will look attractive in any marina.

Aesthetics and Design

Utilizing the same GE engineered thermoplastics, VALOX™& LEXAN®, the DockPro incorporates these materials in pre-fabricated sheets, as opposed to a molded body found on the Dockmoster. Supported by aluminum struts, the DockPro's non-metallic exterior will provide years of service and withstand the harshest of weather conditions. VALOX™and LEXAN® are known for their high UV resistance and durability.

Reliability, Functionality and Flexibility

Inside the DockPro, you will find the same high quality and reliable electrical components used in our other marina products, which for years, have proven to be the best in the industry. Unique to the DockPro are features such as 360° lighting, two lamp style options (screw-in Edison type or fluorescent) and individual receptocle metering copability. Take these, along with the standard features, and you have a rugged, reliable, easy-to-install, low-maintenance pedestal, at an economical price.



Front View



Z Receptacles under the door TV/ Telephone and 3rd receptacle GFI duplex available under Flip cover on post.

Interior View of Head

Standard Features of DockPro

Unitized Service Panel

Panel is preconfigured to accept electrical components, telephone, cable TV, lighting and water/hose bib options.

Electrical Rating: 100 AMPs maximum rating per side (head). For use with 120/240 volt, 1 phase, 3W plus ground. (120/208 volt, 3 phase, 4W plus ground optional).

Circuit Breakers: Each receptacle is protected by a thermal magnetic circuit breaker. Ground fault circuit breakers are also available.

Weather Resistant

VALOX & LEXAN® thermoplastic NEMA 3R enclosure with aluminum extrusion frame. Internal components are weather and corrosion resistant.

Lighting

360° lighting with Edison based socket. To be used with a 15W Compact Fluorescent or an Edison Incandescent Bulb up to 40W. Given the diversity of lamp types available for use, lamps are not factory provided; however units are available with a photocell or switch control. Units supplied with clear lenses. Optional amber lens (VXAMBER) kit available.

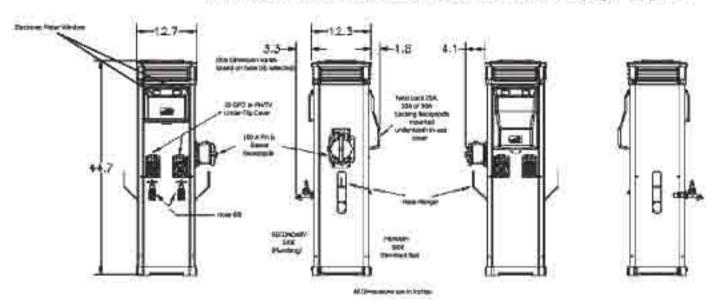
Loop - Feed Terminal Bar

Easy to wire terminal lugs accept up to 350MCM (standard) cable. Terminal bar allows loop wiring of pedestals, eliminating expensive splicing. Units provide complete isolation of electrical, water, telephone and cable TV connections for maximum safety.

UL Listing (0)

UL and CUL® Listing "Suitable for use as marina and boatyard service equipment" (Power Outlet No. 66FL).

For DockPro Options, see page 8 For Model Number Information/option see Generator page - page 15





DockMaster

All the Amenities of Home

Changing lifestules and greater personal mobility have made the marina more than a weekend retreat. For growing numbers of people, their boats are a second home or office, which increasingly requires the support of power frunning water, cable TV for entertainment, information and telephone access for communication and data transmission). Dockmaster's many options make it easy to satisfy these demands. From an operator's standpoint, the emphasis is clearly on convenience & safety. All connections, except water, are arouped behind a weather resistant cover for easy access and security. Lighting options provide sure-footed walkway illumination and a clear view of the service panel for nighttime connection.

Aesthetic and Design Flexibility

The design and construction details of Dockmaster have been engineered for appearance as well as function. Dockmaster's controlled lighting system also contributes a soft wash of accent lighting. From the business end. Dockmaster can be configured for single or double-sided service and can be equipped with individual slip metering to recover electrical costs.

Installation, Upgrading and Maintenance Advantages

Dockmaster's economy can be realized in both the short and long term. All pedestals are factory assembled and wired to minimize on-site installation time and expense. Changing or adding service options to a basic installation is equally easy with economical upgrade kits. (Field-installable options may void UL&CUL® listing).

A final concern in any marine environment is long-term dyrability. Molded from GE engineered plastics, Dockmaster virtually eliminates corrosion problems and periodic maintenance. When you choose Dockmaster, you are also buying into the experience and performance that has made Midwest Electric a recognized leader in out-door electrical service equipment.



Front View



Interior View of Head



^{**3}rd receptacle available as GFCI duplex on post of DockMaster unit.

Standard Features of DockMaster

NEW 3-Phase 100 AMP Pedestal

This unit provides for the larger slips, requiring 100 amp 3-phase electrical service Isingle sided pin-and-sleeve receptacle).

Unitized Service Panel

Panel is preconfigured to accept electrical components, telephone, cable TV & lighting options. Electrical Rating: 100 amps maximum rating per side (head). For use with 120/240 volt, 1 phase, 3W plus ground. (120/208 volt, 3 phase, 4W plus ground optionall

Circuit Breakers: Each receptacle is protected bu a thermal magnetic circuit breaker. Ground foult circuit breakers are also available.

Weather Resistant

VALOX "thermoplastic enclosure and internal componets are corrosion resistant. The cover helps protects cords and plugs while maintaining a neat, clean appearance. Padlock provision provided.

Prismatic Lens

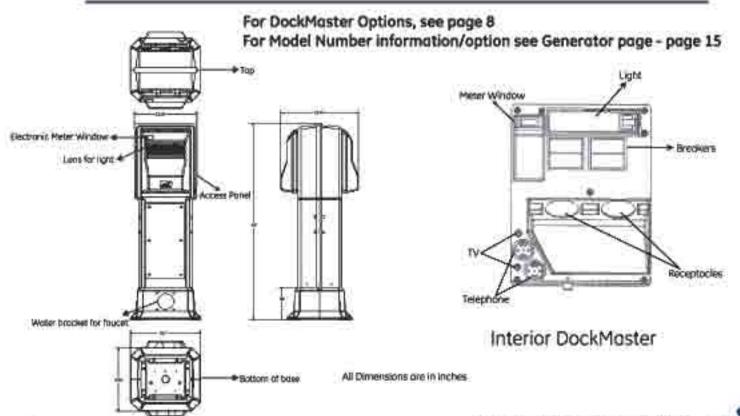
On units equipped with lighting options, the lens effectively eliminates plare and directs light downward and outward for maximum dock Illumination.

Dress panel & oversize access panel

The dress panel completes the reverse side of all single-service pedestals, while the oversize access panel facilitates easy installation and upgrading.

Base Module with Loop-Feed Terminal Bar

Easy-to-wire, 200amp rated terminal lugs, accept up to 350MCM cable. Terminal bar allows loop wiring of pedestals, eliminating expensive splicing. Unit provides complete isolation of electrical. water, telephone and cable TV connections for maximum safetu.



DockPro and DockMaster Options

Double Sided Service

Unit allows two slips to be serviced from the same pedestal. Service panels may be identical or individually tailored.

Water Service

¾* hose bibs standard. Also adaptable for the other plumbing systems. Available with backflow preventors.

Cord and Hose Storage Rack

Keeps dock area uncluttered for greater safety and better appearance. Stainless Steel construction. Dockmaster kit is UHH, DockPro kit is VHH.

Telephone & Cable TV

Industry standard jacks are provided for direct connection.

Lighting

Fluorescent lamps are available as an option for all service and dress panels (circuit breaker protects light circuit). DockPro is equipped with an Edison based socket (lamp is not included). Dockmate and Dockmaster models utilize a 7 or 9 watt fluorescent lamp.

Lighting Control

Photoelectric sensor turns light on at dusk, off at dawn. When ordering a photoelectric sensor, an in-line fuse is provided for an internally wired light circuit.

DockPro Light

Marina Dockside Light Pedestal

DockPro Light Features

- Used as accent lighting for better visibility of dock areas and pathways
- Pedestals are available in 12" (VUZZZAUW12), 24"
 (VUZZZAUW24) & 42" (VUZZZAUW42) heights
- 360° lighting with Edison based socket to be used with a 15W Compact Fluorescent or and Edison Incandescent Bulb up to 40W (bulbs not provided)
- Lenses available in the following colors:
 - Clear/Opaque



DockMate

Dockmate Marina Power Center

The 2nd generation of Dackmate Power Centers combine those features that have made it the model of choice.

Without sacrificing quality, the Dockmate continues to provide an electrical power center that meets the demands of boaters, as well as marina operators.

Dockmate units are suitable for all types of installations (surface mount for dock box), or galvanized or stainless steel post or simply steel post. You can be assured, you are installing a high-quality safe unit, offering the widest array of options and accessories in the marketplace. The Midwest Duck is known throughout the electrical industry as being synanymous with quality and reliability.





^{**3}rd receptacle available as GFCI duplex on post of Dockmate unit

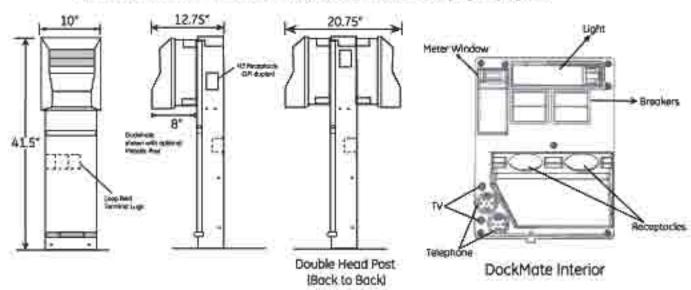


Features and Benefits of DockMate

- UL listed & CUL @certified, ensures a safe and reliable unit.
- Dockmate is Service Entrance Rated.
- Injection molded VALOX[®] thermoplastic resin creates a housing that's lightweight, impact & corrosion resistant and offers UV protection.
- Factory-wired power receptacles available in 20, 30 and 50 amp locking-type configurations, protected by thermal magnetic circuit breakers, which ensure dependable operation.
- Cord slot cover closes over plugs and cords, offering protection from the weather.
- Padlock provision.
- Utilizing a traditional load center makes it easier to wire (low installation cost) and provides for a stronger circuit breaker connection.

- Terminal lugs accept up to 350mcm CU/ AL wire. Mechanical lugs utilized with copper bus bottom feed loop-feed lugs which reduce electrician-wiring time and lower installation cost.
- Electronic meter, mounted internally, offers a higher degree of dependability and accuracy.
- Angled meter counter mounted on front cover reduces labor costs associated with meter reading and recording.
- Fluorescent light (7W or 9W)
 Illuminates for easy nighttime
 plugging, while providing aesthetic accent and security lighting for the dock area.
- 9" post versions are available in Type G90-16 gauge galvanized steel or Type 304L-16 gauge stainless steel.
- Units rated 100 Amp. Loop-feed post terminal rated 200 Amp.

For Model Number information/option see Generator page - page 15





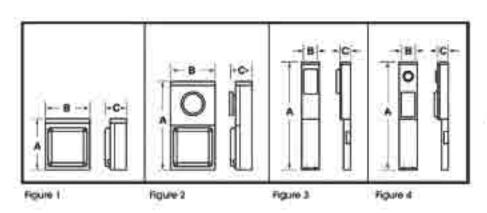
DockHand

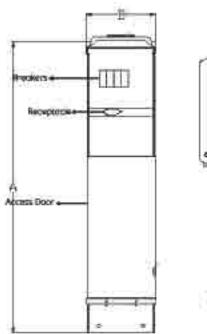
- Blue Powder-Coat Paint Finish (non-standard white may be available)
- Available in a 6" or 9" wide post or surface mount (some unit require 9" width based on receptacle)
- Rolled edge door for cord protection
- Corrosion resistant grounding & locking type receptacles for dependable service
- The 6" post is rated 70A max per side (head) with post lugs accepting up to 300 mcm cable
- The 9° post is rated 100A max per (head) with post lugs accepting up to 300 mcm cable on single head and 350 mcm on back to back
- NEMA 3R construction for lasting service in outdoor installations
- Wide range of receptocle configurations
- Factory wired to loop-feed lugs located in the post
- Ring Type, 4-Jaw Meter Socket Available



Front view

No special options available









Available DockHand Configuration

Dimensions	Figure	Heighs-A	Width-8	Depth-C
6" surface	1	14-3/8	7-1/4"	5-3/16"
9' unmetered surface:	1 4	17-3/8	9-3/4"	5-3/16'
9* metered surface	2	30°	9-3/4"	5-3/16"
6" pedestal	3	36*	7-1/4*	5-3/16"
9" unmetered pedestal	3	41-1/8	9-3/4"	5-3/16"
9" metered pedestol	4	53-1/2"	9-3/4"	5-3/16"

		6' Dock	hand Models	
1 42 5 50	eptocle jurotions	Unmetered	Pedestal Unmetered Single Unit	Pedestal Unmetered Back-ta-Back
	30	UGBZZ6SB	UGB226P8	UGBZZBZZ6PB
20	.20	UGAAZ65B	UGAAZ6PB	UGAAZAAZ6P8
30	20			
30	30	UGBBZ6SB	UGB8Z6PB	LIGBBZBBZ6PB
50	30	-		
30	20GF1		UGBFZ6PB	

	9" Dackhand Models						
	Receptacle Configurations	Surfoce Unmetered	Surface Ringtype Metered	Pedestal Unmetered Single Unit	Pedestal Unmetered Back-to-Back	Pedestol Metered Single Unit	Pedestal Metered Back-to-Back
	30		MGBZZ95B			MG8ZZ9P8	MG8ZZBZZ9P8
30	20		MGBAZ9S8				
30	30	UG882958	MGBBZ9SB	UGB8Z9P8		MGBBZ9PB	MGBBZB829PB
50	30	UGDBZ9S8	MGD8Z9S8	UGD8Z9P8	LIGDBZDBZ9P8	1 1-2	
50	50	UGD0Z9S8		UGD0Z9PB		MGDDZ9PB	

Marina Substation

Midwest Electric's marino substations provide a safe, economical way to deliver power to Power Centers and Power Pedestals.

The substations consist of a core and coil drytype transformer and a distribution panel board in a common enclosure.

- Distribution Panel Board
- NEMA 3R, Marine grade enclosures
- · Transformer range of 15kva and up
- Enclosures made of galvanized steel, aluminum or stainless steel
- Contact Midwest rep for additional information





Marina Accessories

Harbor Light (Model: DLITE071- 7 watt Fluorescent)
Marina Dockside Light Fixture

Harborlight Features

- UL Listed(ii)
- Corrosion resistant VALOX[™] housing, all stainless exterior hardware
- PL7 energy saving fluorescent lamps are included
- Separable non-metallic base for fast secure installation
- Prismatic lens made from tough, durable LEXAN®

Ordering Information

- -Harborlight is suitable for 120V AC service
- -Light circuit should be provided by a circuit breaker or fuse (not included)



RETROFIT METER KITS FOR THE DOCKMASTER POWER CENTER.

Meter Features:

- Meter module provides state of the art electronic digital metering
- Available in 120, 208, and 240 V
- Factory assembled units are completely wired and ready for installation

FIELD INSTALLED WATER SHROUD (Models: UH90SW - Stainless Steel Shroud) UH90GBW - Galvanized Shroud

- Water shrouds are made of stainless or galvanized steel, painted white or blue for Galvanized Dockhand 9"
- Mounts on backside of pedestal
- Does not include faucets, piping or fittings
- For Metal Pedestal Units only







Field Installed Options for Marina products

* UH90SW Stainless Water Shround (9" width only)

* UH90GB/W Galvanized Water Shround (9" width only, white or blue paint finish)

UWATER34 3/4" Hose Bib (Max 2/Shroud)

UBFP Backflow Preventor

UHH One Pair Cord & Hose Storage Rack

VHH-DockPro One Pair Cord & Hose Storage Rock

Marina Product Warranty

Midwest Electric Products, Inc.

The company warrants, to the Purchaser, that the equipment to be delivered hereunder will be free from defects in material or workmanship and will be of the kind and quality designated or specified in the contract.

This warranty shall apply only to defects appearing within one year from the date of shipment from the factory.

If the equipment delivered hereunder does not meet the above warranty, and if the Purchaser promptly notifies the company, the company shall correct any defect or nonconformance with the specifications. Midwest would supply necessary repairs or parts to connect.

The liability of the Company under this warranty (except as to title) for any loss or damage to the equipment, whether the claim is based on contract or negligence, shall not exceed the cost of correcting defects.

Upon the expiration of the warranty period, all such liability shall terminate. The foregoing shall constitute the exclusive remedy of the Purchaser and the exclusive liability of the Company.

The foregoing warranty is exclusive and in lieu of all other warranties, whether written, oral, implied, or statutory lexcept as to title). NO WARRANTY OF MERCHANTABILITY OR FITNESS FOR PURPOSE SHALL APPLY. The Company does not warranty any equipment of other manufacture designated by Purchaser.



^{*} Not required for DockMoster and DockPro

Catalog Number Generator

Generator is to be used for creating catalog numbers for our marina product line. Contact your local Midwest Rep or Midwest Customer Service representative for further assistance in creating a model number.

Step 1: Choose Unit Type Dockmate VA

Step 2: Choose desired receptocles for Head 1 L6-50R 50amp, L5-30R 30 amp & GFCI straight blade duplex, Iduplex under flip cover on post! DBH (Limit 2 receptocle under main door. Con manufacture with additional straight blade duplex under flip cover on post)

Step 3: Choose desired option for Head 1 1-TV/Telephone, 7 watt light, photo cell, metered CS

Color Code

W (white)

Model Number: VADBHCSW

Repeat Steps 2 & 3 for any back-to-back models to arrive at model number.

Step 1: Choose one code (2 character)

Code	Linit Type-Base Only
VA	Dockmate Power Center (Head Only)
VD	Dockmate, single-side,w/stainless steel pad mount post
VE	Dockmate, single-side,w/galvanized steel pad mount post
VF	Dockmate, back to back, w/stainless steel pad mount post
VG	Dockmate, back to back, w/golvanized steel pad mount post
VH	Dockmaster single-sided pedestal
VJ.	Dockmoster back-to-back pedestal
VX.	Dockpra single-sided pedestal
VA VD VE VF VG VN VX	Dockpro back-to-back pedestal

Step 2: Choose 3 codes (3 characters)

Code	Most Common Receptacle/Circuit Breaker Combinations Partial Listing for Marina Products
ŗ	LS-20R 20 amp 125 cooking Type w/SPD Breaker
8	LS-30R 30 arra 125 V Locking Type
ė	L5-30R 30 amp 125 V Looking Type
D	L6-50R 50 amp 125/250 V Locking Type
L	LS-SOR 50 amp 125 V Lacking Type
	5-20R1 20 amp 125 V
w.	100 cmp (EC 309 Pin/steeve type, 125/250 V
H	GPCI duplex 20 amp 125e Straight Blade under fly cover on Post
2	Not Lised-Blank

Step 3: Choose one code (2 character)

Option Code	Options			
AA	No Options			
AU	7W Light and Photocell			
AW	W Light, Photocell and Metered			
CQ:	1. TV/Telephone, 7W light and Photocall			
AC	Metered			
AS	7W Light and Metered			
CM	1 tV/Yelephone, and 7W light			
CS	1 TV/Telephone, 7W light, Metered and Photocell			
co	1 TV/Telephone, 7W light and Metered			
AA AU AW CQ AC AS CH CS CO BW	1 fWTelephone			
EK	2 TV/Telephone, Metered			

Accessories: Field Installable Kit

*May be factory installed using appropriate option code

Model	Description
VLIGHT	7 Watt Fluorescent Light
ALOOE .	1/0 Loop Lug Kit
VAMBER	Amber Lens Cover
VXAMBER	Amber Lens for DockPro only
VAPE	Photoelectric Sensor
VATELTY	Tele/TV Connection K/t
ULUG3	6th position lug for 3-phase loop
	Feed # 6-350 KCMIL
UH90SW	Strainless Water Shroud
UH90GW	Galvanized Water Shroud
UHH	One pair cord & hose storage rack
UBFP	Backflow preventer
UWATER34	3/4" Hose Bib
VMASTER1S	125V Electric Meter Kit-Single
VMASTER2S	125V Electric Meter Kit-Duol
VMASTER1D	125/250V Electric Meter Kit-Single
VMASTER20	125/250V Electric Meter Kill-Duol

3

Manufacturer's Sales Representatives Offices



- Midwest Electric Products, Inc., Monkato, MN 56601.
 Phone: ISD/1 345-2505.
 Fax: ISD/1 345-2505.
 Conada, Howaii, and Puerto Rico www.midwestolectric.com
- fi Lesco, Inc. Milwoukee, WI 53202 Phone (414) 593-1428 Fox (414) 439-0741 WWW.lesco-Inc.com
- 7 Bishop & Brogdon Allanto, GA 30336 Phone, I404| 494-4333 800-241-2963 Fox I404| 364-5596
- 8 Blater Marketing Group Council Stuffs, (A.S.1502-0497 Phone (7)21 528-1841 888-924-9537 Fax (7)23 328-7449 www.baiermarketing.com
- Arthur Boyle Compony, Inc. indianapolis, IN 46220 Phone (317) 577-9100 800-776-9101 Fax: (317) 577-9161
- 12 Gurmersell Cashdan, inc. Farmingdole, NY 11735 Phone 15311 752-9440 Faix (6311 752-9415 www.gurnash.com
- 22 G.N. Deperte Company Cetroli, MI 48711. Phone: GI31 875-4038-11-12 800-875-9120 Fpt: GI32 872-5544.
- 23 Electrorep Souscillo, CA 94965 Phone: IA15i 332-4100 Fax IA15i 332-4150 www.electrorep.com
- 25 Electra Sales of North Texas, Inc. Irving, TX 75061 Phone, 19721 554-8200 Fax 19721 554-7861 www.electrosales.net

- 29 E-Tel Houston, TX 77028 Phone: (713) 678-4460 Fax (713) 678-4371 Www.stelinc.com
- 35 SEGI Tempe, AZ 85282 Phone: (490) 317-0868 866-969-7344 Fax (480) 317-0875 www.segisalespros.com
- 56 SEG) 8/lings, MT 59101 Phone: (496) 248-9224 Fax: (406) 245-6953
- 37 Electro-Lines, Inc. Syrocuse, NY 13208 Phone: (315) 455-5701 800-962-5760 Fox: (315) 455-7114 Www.electrisnes.com
- 39 Farmer Electrical Sales, Inc. Greensboro, NC 27415 Phone: 1336/375-1122 800-849-0244 Fax: 036/375-0177 www.farmerelectrical.com
- AJ L.W. French, Inc. Glen Allen, VA 23060 Phone: IB04/270-3205 Fax: (804) 270-0885 www.lwfrench.com
- 45 Bernco Soles, Inc. Pittsburgh, PA 15201 Phone: R127 562-9300 Fax: (4121 562-9028
- 46 J.R. Bovyer Electrical Sale of OH Hudson, OH 44236 Phone: (330) 656-4126 800-362-6613 Fax: (330) 650-2586 www.bovyersso.com

Gisarnati, OH AS227 Phone: (513) S&1-0500 800-582-0500 Pax: (513) 561-1811

- 50 Schoeffer Sales, inc. St. Louis, MO 63045 Phone, (314) 291-9500 Fac (314) 291-9595 www.schoeffersoles.com
- Wrest Courst Soles Auburn, WA 98001. Phone (253) 833-6434. (BOO) 275-6649.
 Fac: (253) 833-6603.
- 53 Curtie H. Stout, Inc. Little Rock, AR 72203 Phone (501) 374-6694 Fax (501) 374-1399 www.curtisfestoutine.com
- 55 Electrical Products of Oldahoma Oklohoma City, OK 73116 Phome. WOS 842-6371. Fax: 14051843-1636

Tulso, OK 74112 Phone: (918) 663-1921 Fax: (918) 663-0015

56 John Moore & Associates, Inc. La Vergne, TN 17086 Phone 6155 287-0500 Fox 1615) 287-0562 www.ymoore.com

> Memphis, TN 38114 Phone (901) 948-0193 Fax: (901) 948-0194

- 58 Syn-Tech, inc. Metorie, LA 70002 Phone (504:835-7825 800-535-7619 Fax:1504:035-7853 www.syntech-inc.com
- 59 MWE, Inc. N. Korwoo City, MO 64116 Phonix (800) 678-1075 Fax: 1888 1842-8047 WWW.mweln.com

- 61 Single Source Sales. Els Grove Village, IL 60007 Phone: IB471 939-5030 Fox. IB471 364-4107
- 52 O.T. Mail 6 Son, Inc. Milesville, MD 21108 Phone: (0.10) 967-5990 888-621-7455 Fax (410) 987-9691 www.sthat.com
- 55 Dermoc Agencies, Ltd. Burnoby, B.C., Conado Phone: I6041 520-7121 Fax: I6041 524-2162 Www.dormoc.co
- 66 Lesos, Inc. Minneapolis, MN 55427 Phone (1/63) 542-9242 Fair (763) 542-9389 www.lesco-inc.com
- 72 Metro Associates, Inc. Deerfield Beach, Ft. 33442 Phone: (954) 428-4446 BOC-201-3465 Fox: (954) 428-4459 West Metro-associate
- 75 Theovine, Inc. Loctine, Ovebec, Conodo Phone: ISIAI 637-4630 Fax: \$2AI 637-4630 www.freorine.com
- 77 Dovid Role & Co. Weburn, MA 01801 Phone: 17811932-8816 800-878-0852 Fox (781)932-8815
- AS J.R. Schmidt & Associates Denver, CO 80223 Phone: 1866/ 592-1313 Fax (303) 778-7613 www.jr-schmidt.com
- 85 Pollart Electrical Sales Company, Inc. Bansciem, PA 19020 Phone: 18001 372-8000 Fax 1235 245-0773 www.pollart-electrical.com