

**MORE POWER – LESS SPACE™**

**Beka®**  
**unigy®**

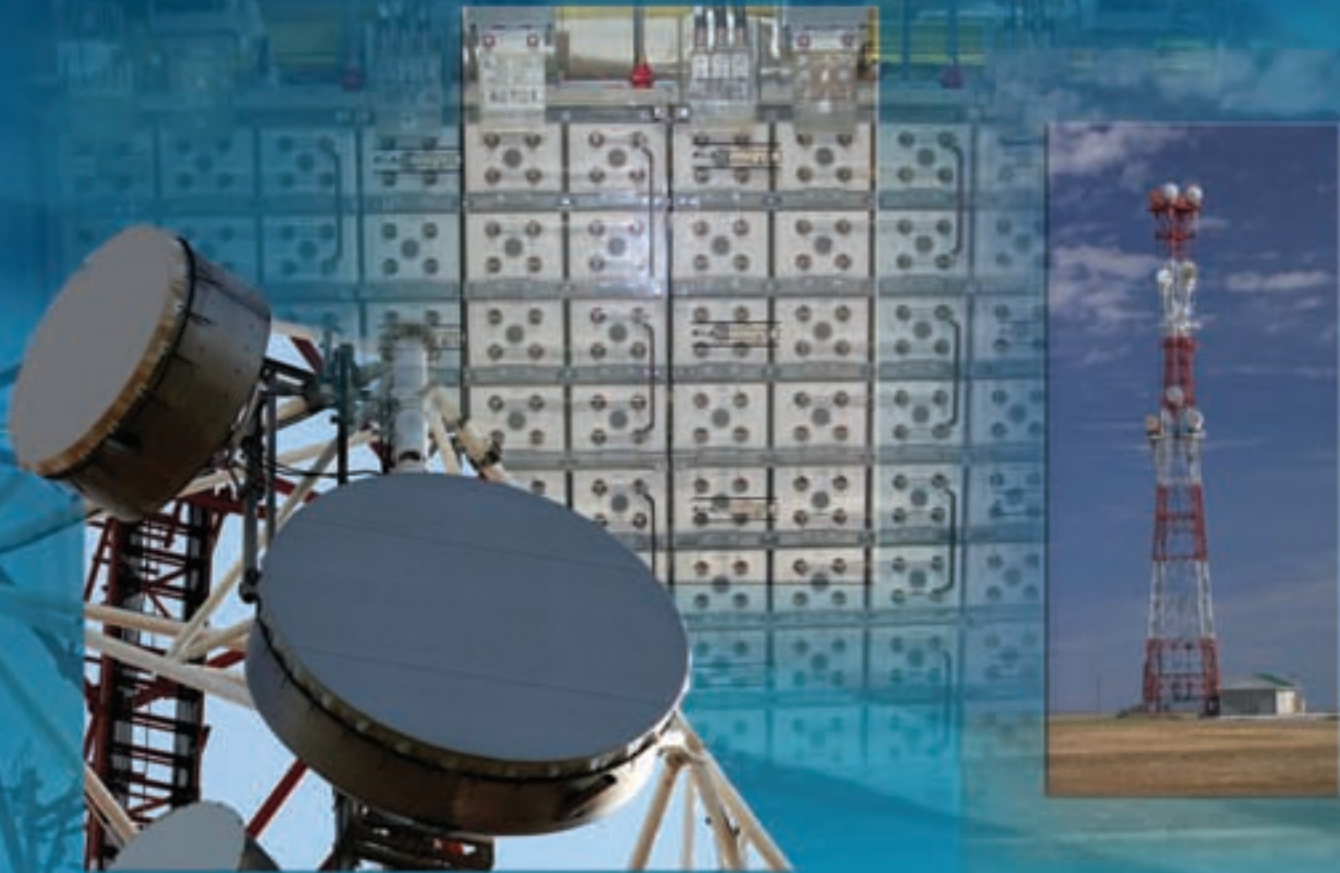


**Made in U.S.A.**

## **Telecommunication Solutions**

**The best quality, high performance battery  
solutions for any telecom application.**

QUALITY SYSTEM  
CERTIFIED  
**ISO 9001**  
ENVIRONMENTAL  
SYSTEM CERTIFIED  
**ISO 14001**



**Deka Unigy batteries are engineered and tested to provide reliable long-lasting power specifically for critical telecommunication applications where minimal maintenance is desirable:**

- Central Office
- Cellular Sites
- PBX Back-up
- First Response Emergency Communications Systems

## ENVIRONMENTAL PROTECTION PROGRAM

East Penn is committed to implementing the highest environmental standards, and has labeled this sixty-year plus tradition as it's "Environmental Protection Program." Through state-of-the-art recycling facilities and a company wide dedication to environmental health and safety, the company has made safe recycling and environmental stewardship an everyday practice.

Its lead smelter and refinery is a model for the industry recycling virtually 100% of every used lead-acid battery component brought to the facility. East Penn built the battery industry's first acid reclamation plant, avoiding potentially hazardous acid disposal.

The company also treats and reuses wastewater from its manufacturing plants in our modern Wastewater



Distillation and Treatment Plant reducing the use of precious ground-water by over 100,000 gallons per day. Companywide sustainability initiatives are spread throughout its facilities such as collections to recycle paper, cardboard, plastic, used aluminum cans, and glass bottles.

East Penn was one of the first in the nation to install a scrubber unit, which eliminates sulfur dioxide emissions. The company continually monitors the ambient emissions around its plant site, which continues to decline even with a steady increase in production.

The company's modern facilities as well as its long-standing "green" culture has made East Penn the most environmentally conscious proactive battery manufacturer, and recycler in the world.



*Wastewater Treatment Plant*



## AGM TOP ACCESS MONOBLOC / 12V

Deka Unigy I top terminal batteries are designed specifically for long discharge telecommunications applications and are available in a range of 27 – 130 AH capacities. The Deka Unigy I top terminal line is available as a 6 cell (12 volt) monobloc battery.

### FEATURES AND BENEFITS

Plates Formed Using Exclusive IPF® Technology	Optimizes power capacity, cell consistency, and long-term reliability
Valve-Regulated	Eliminates periodic watering, corrosive acid fumes, and spills
Positive Plate	Pure lead, tin alloy
Post Seal	Epoxy sealed to prevent leaks and corrosion damage
Case and Cover	Molded high impact flame retardant polypropylene, UL 94 V-0, 28% L.O.I.
Safety Valve and Flame Arrestor	100% tested valve, low positive pressure, self sealing
Rated Non-Spillable by ICAO, IMDG, IATA, and DOT	Transports easily and safely by air, no special containers needed



## AGM FRONT ACCESS MONOBLOC / 12V

Installation and monitoring times are significantly reduced and safety is improved by Deka Unigy I front access terminal batteries. Front access eliminates the need to reach over the terminal connections. These batteries are available in a range of 100 – 170 AH capacities as a 6 cell (12 volt) monobloc. Deka Unigy I batteries are designed specifically for long discharge telecommunication applications.

### FEATURES AND BENEFITS

Plates Formed Using Exclusive IPF® Technology	Optimizes power capacity, cell consistency, and long-term reliability
Valve-Regulated	Eliminates periodic watering, corrosive acid fumes, and spills
Front Access Terminals	Improved installation, monitoring and safety
Positive Plate	Pure lead, tin alloy
Post Seal	Epoxy sealed to prevent leaks and corrosion damage
Case and Cover	Molded high impact flame retardant polypropylene, UL 94 V-0, 28% L.O.I.
Safety Valve and Flame Arrestor	100% tested valve, low positive pressure, self sealing
Rated Non-Spillable by ICAO, IMDG, IATA, and DOT	Transports easily and safely by air, no special containers needed

## TELCO RACK SYSTEMS



The Deka Unigy Telco Rack, at only 26" wide, offers one of the smallest footprints of any NEBS rated rack in the USA. Allowing for up to 12 strings (24V) to fit in the place of a 23" rack, it can provide up to 2040 AH in only 4.3 square feet of space. Unlike many equipment racks, this rack is completely front accessible including cable connections.

This is an improvement over side-mounted hardware connections that cannot be accessed during maintenance or changes once installed next to walls or other racks.

Cables are used on the sides of the rack instead of open copper buss bars, providing fewer uninsulated parts to cause damage, especially during seismic events. The output buss bars are located on the top, recessed into the frame of the rack for protection. The heavily insulated cabling provides added protection from electrical circuits and ground faults. It is safer than any other tiered racks with thin or uninsulated side cover plates.

Deka Unigy Telco Racks are available in various heights including 3, 4, 5, and 6 tiers. The 3 tier rack has an optional top plate for mounting half a rack (19" or 23") on top of the rack for equipment or a DC plant. The 4 and 5 tier racks feature optional rails for mounting rectifiers and other equipment in the same rack, resulting in a complete high density DC Plant and storage solution.

In addition to arriving pre-wired and pre-assembled to expedite installation, it also features minimal removable parts for the fastest installation time of any other rack. Only anchoring and installation of the batteries are required. The racks can be mounted side by side for longer run-times. Also featured is an additional .250" of air space to cool the battery and assist in longer battery life. It is available with an optional circuit breaker protection on each string for bulk output and is adjustable to accommodate 150 – 170 AH front terminal batteries.



## AGM MODULES / 2V

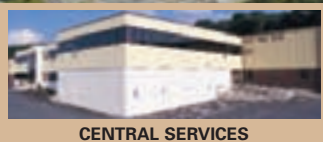
The Deka Unigy II line is available as a 2-volt cell, either as a single cell or system design. It includes a wide range of capacities and sizes to fit the requirements of telecommunication applications with ratings from 91 – 2000 AH @ 8 HR. to 1.75 v.p.c. The cell terminals are solid copper with lead plating, and are designed for maximum conductivity. Advanced features provide easy and safe installation such as “two way” post and easy on/off front shields.

The Deka Unigy II STANDARD DESIGN allows modules to be stacked horizontally and connected by only six bolts (four in front – two in back), for quick and safe battery installation.

The Deka Unigy II INTERLOCK™ SYSTEM utilizes interlocking modules to maximize convenience with front access bolting. This system delivers more power in less space while maintaining cooling requirements. Equipped with a standard one-piece INTERLOCK™ base, the system meets Zone 4 seismic specifications and is certified up to 8 modules high.

### FEATURES AND BENEFITS

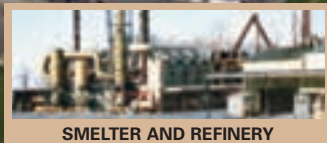
Plates Formed Using Exclusive IPF® Technology	Optimizes power capacity, cell consistency, and long-term reliability
Valve-Regulated	Eliminates periodic watering, corrosive acid fumes, and spills
MICROCAT™ Catalyst	Lowers float current, decreases internal temperatures, and the risk of dryout
Positive Plate	Pure lead, tin alloy
Post Seal	Epoxy sealed to prevent leaks and corrosion damage
Case and Cover	Molded high impact flame retardant polypropylene, UL 94 V-0, 28% L.O.I.
Safety Valve and Flame Arrestor	100% tested valve, high positive pressure, self sealing
Rated Non-Spillable by ICAO, IMDG, IATA, and DOT	Transports easily and safely by air, no special containers needed



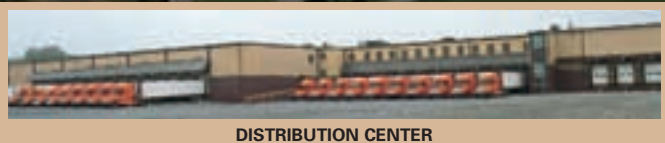
CENTRAL SERVICES



AUTOMOTIVE BATTERY PLANT A-3



SMELTER AND REFINERY



DISTRIBUTION CENTER



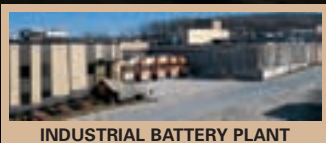
SPECIALTY BATTERY PLANT S-1



KELLER TECHNICAL CENTER



CABLE AND WIRE PLANT



INDUSTRIAL BATTERY PLANT



INJECTION MOLDING / FLEET MAINTENANCE



CORYDON, IA BATTERY PLANT A-5

## World's Largest and Most Modern Single-Site Battery Manufacturing Facility

Since 1946, East Penn has been producing high quality batteries and battery accessories for the automotive, commercial, marine, industrial, stationary, and specialty markets.

Facilities at its 520-acre single-site manufacturing complex in Lyon Station, PA include four automotive battery plants, an industrial battery plant, a specialty battery plant, a state-of-the-art oxide facility, an innovative recycling infrastructure, and dozens of vertically integrated capabilities and other support facilities. An additional manufacturing facility in Corydon, IA helps accommodate widespread growth. Just miles away, East Penn owns and operates a wire, cable, and battery accessory plant and a multiple facility distribution center complex.

New high-tech facilities and computer monitoring and control systems have made the company an industry leader in advanced battery manufacturing.

East Penn's quality manufacturing is recognized world-wide and has met the global requirements of ISO 9001 and ISO/TS 16949 certification standards. East Penn is also a leader in innovative recycling and has met global environmental requirements of ISO 14001 certification standards.

Staffed with a long-term management team, East Penn is an independent company committed to the future and dedicated to producing high-class products and service to assure complete satisfaction, above and beyond the industry standard, to its partners and customers worldwide.

**"POWERED FOR PERFORMANCE"®**

**EAST PENN manufacturing co., inc.**

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