

# **Deka** **unigy II**

**MORE  
POWER  
in LESS SPACE**

*Tomorrow's energy systems...today*

## **SPACESAVER™ SYSTEMS**



### **INTERLOCK™ MODULE**

*Module requires only  
front access bolts  
for mounting.*

### **NON-INTERLOCK MODULE**

*Module has front  
and rear access bolts  
for mounting.*



UL Recognized Component

QUALITY SYSTEM  
CERTIFIED TO  
**ISO 9001**

Made in  
U.S.A.



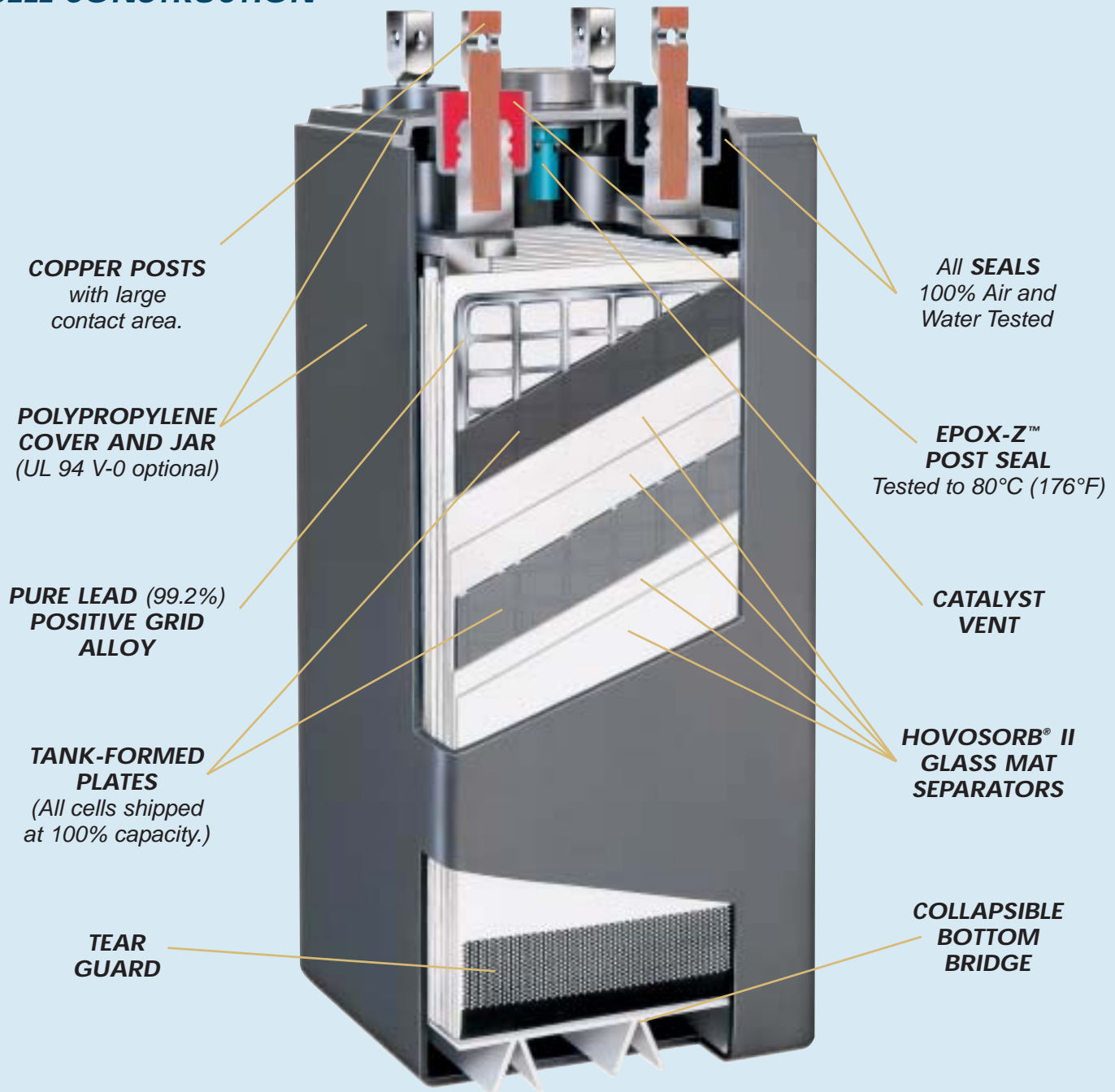
NON-INTERLOCK & INTERLOCK™ MODULES

# SPACESAVER™ SYSTEMS

**DEKA UNIGY II SPACESAVER™ BATTERIES** are constructed using the finest quality materials and state-of-the-art manufacturing techniques and are known for their high reliability and superior performance. This line of batteries utilizes a smaller footprint to save space while providing optimal power. The new reduction in space enables less restriction for ground and vertical space confinements and meets the latest UBC 97 Zone 4 specifications, certified up to 8 modules high. Assembly is quick and easy with a simplified, yet advanced layout configuration and "two-way" post design allowing quick connector assembly and optimized current transfer.

**DEKA UNIGY II SPACESAVER™ BATTERY SYSTEMS** are ideal for a variety of applications: telecommunications, switchgear control, cellular radio, photovoltaics, railroad signs/communications and uninterruptible power sources (UPS).

## CELL CONSTRUCTION



# SYSTEM CONFIGURATIONS

- 48- and 24-volt for Telecommunications
- 120-, 240-, and 480-volt for UPS and Switchgear Control

# FEATURES AND BENEFITS

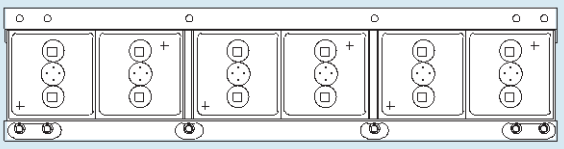
- Redesigned **AIR GAP** between cells reduces footprint while maintaining required cooling
- **FRONT SHIELD** design easily clips on and off without tools for quicker assembly
- **TWO-WAY POST** design allows for easier connector installation
- **CATALYST VENT** improves high temperature performance (standard on 95 model only)
- **TWO-PIECE BASE** meets UBC 97 Zone 2B top of building requirements – zone 4 certified to 8 modules high on ground level
- **ONE-PIECE BASE** meets UBC 97 Zone 4 top of building requirements – certified to 8 modules high



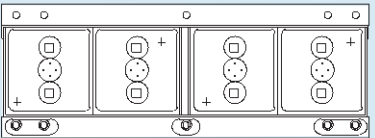
- **AVR95 CELL** delivers up to 28% more power in the same space compared to larger competitor models while maintaining a 20-year design life
- Patented design (**INTERLOCK™ MODULE** only) allows for front access bolting – rear bolting is eliminated
- New 48-volt AVR95-33 is reduced by 3.5" in height and 6" in width compared to previous Unigy offering
- AVR95-33 is rated at 1520 A.H. at the 8 hour rate, to 1.75 volts per cell (vpc)
- **TANK FORMED PLATES** allow systems to be shipped at 100% rated capacity.

EPM Unigy II products are designed to meet the requirements of IEC 60896-21/22, BS 6290 and SR-4228.

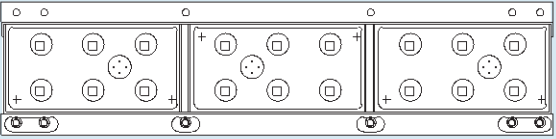
**6 Cell Modules (5–15 plates)**



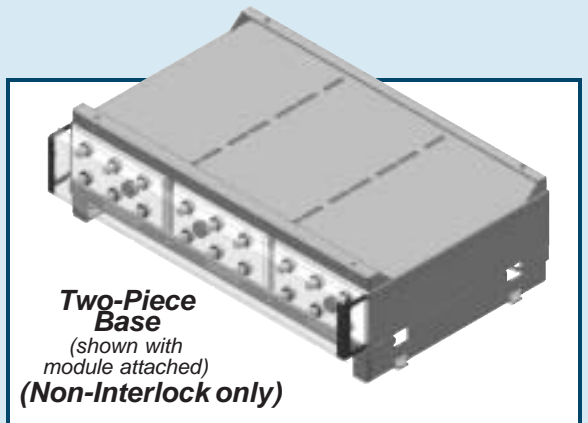
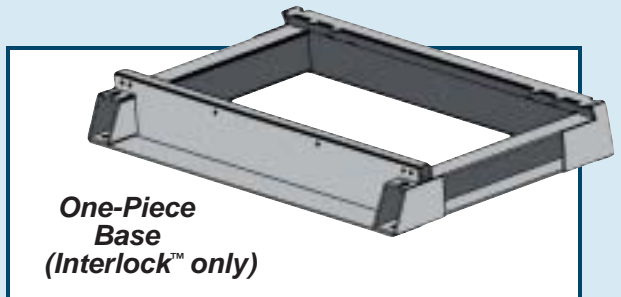
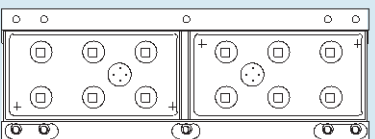
**4 Cell Modules (5–15 plates)**



**3 Cell Modules (17–33 plates)**



**2 Cell Modules (17–33 plates)**





NON-INTERLOCK & INTERLOCK™ MODULES

# SPACESAVER™ SYSTEMS

## PRODUCT INFORMATION

### Module/Cell

**Configurations:** All Unigy II cells are inserted into the modules in a **STANDARDIZED DROPPING PATTERN** for easier system installation.

**Container Material:** **STANDARD POLYPROPYLENE** – This material is typically used when there are no requirements for a flame retardant material. Add “S” suffix to module number when ordering. (ex. 6AVR95-07S)

**FLAME RETARDANT POLYPROPYLENE** (Optional) – This material is a V-O halogenated polypropylene. This material has an LOI (Limiting Oxygen Index) of greater than or equal to 28%. Add “L” suffix to module number when ordering. (ex. 6AVR95-07L)

**Termination:** **TOP OR SIDE TERMINATION** is available as a standard feature at no additional cost.

**Module Size:** There are various module sizes, a 6-cell module for 5 thru 15 plate cells and a 3-cell module for 17 thru 33 plate cells. These module sizes are our most popular configurations. For special space requirements, there are two additional sizes (Interlock™ only), a 4-cell module for 5 thru 15 plate cells and a 2-cell module for 17 thru 33 plate cells. It offers more choices in configuring the battery system, provides more flexibility when selecting height and length of your particular system configurations, and enhances overall space saving and versatility.

**Maximum Modules:** Modules can be stacked up to eight modules high.

**Connector Package:** Our standard 1CU connector package meets discharge rates as low as the two hour rate to 1.75 vpc. Optional packages are available to provide the proper hardware for your higher rate applications.

**Base Support:** See information on inside right page of this brochure.

## OPTIONAL ACCESSORIES

- **Top Mounting Plates for Electronics** – used to bolt electronics on top of battery/system.
- **System Current Shunt Kit** – a device used to test/monitor the condition of the battery.
- **High Voltage Buss Bar Kit** – permits multiple battery strings to be connected for easy distribution to system connections.
- **Floor Loading Plates** – distributes load weight evenly.

48-volt Deka Unigy II  
AVR95 Interlock™ System



“POWERED FOR PERFORMANCE”™

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

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