



## Industrial Batteries

# Absolyte IIP – From the World Leader in VRLA Battery, Technology

## Absolyte IIP- Superior Performance

- Absolyte is the world's best selling large valve regulated lead acid (VRLA) battery brand.
- Leadership bolstered by proven field experience since 1983.
- More than five million cells sold.

### Qualifications

- Absolyte IIP is qualified to stack horizontally up to eight high for use in U.B.C. 1994 Seismic Zone IV and to ten high for U.B.C. 1997 Seismic Zone IV (at or below grade).
- IEC 896, BS 6290, UL Recognized, ISO 9002 and designed to meet Telcordia SR4228.

### Post Seal / Cover Seal

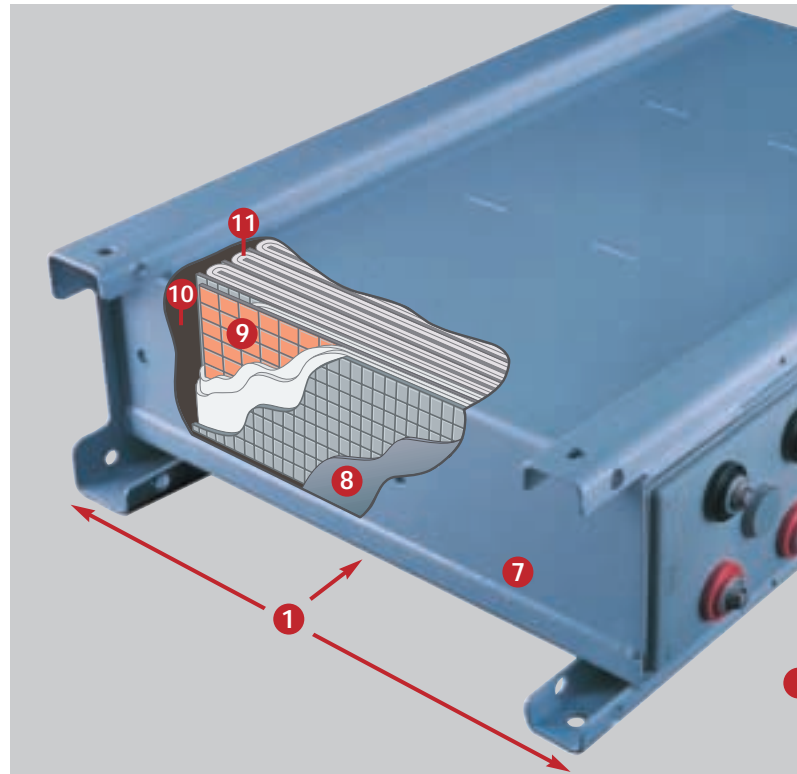
- Post seal design incorporates a non-corrosive polypropylene-to-polypropylene bond between the terminal post sleeve and the cell cover.
- Leaks 1000 times smaller than the eye can see are discovered by the super-sensitive helium leak detection system, guaranteeing the quality of the seals.
- Most sophisticated and reliable post seal in the industry.

### Total Technology Solution

- Patented MFX positive grid alloy provides long life in both float and cycling applications as well as outstanding recovery from deep discharges.
- Modular steel trays are designed for easy installation and balanced thermal management.
- Absorbed glass mat (AGM) separators provide efficient operation resulting in the highest oxygen recombination efficiency (>99%).
- Low resistance separator allows for improved high rate discharge performance.
- Flame retardant transparent module cover.

### Application Ready

- Telecommunications
- Uninterruptible power systems
- Switchgear and control
- Railroad signal and communication
- Photovoltaics
- Marine
- Alternative energy systems

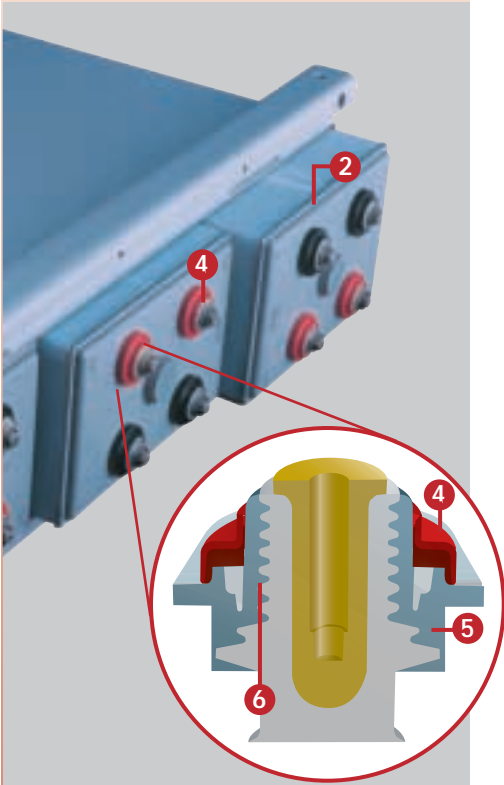


### Designed for High Performance

- 1 Highest capacity in the smallest footprint. Frees up valuable floorspace for other equipment.
- 2 Jar to cover heat seal. Jar and cover are heat sealed and bead smoothed for a more reliable seal.
- 3 Safety vent. 5-10psi opening pressure. Self-resealing.
- 4 Color-coded Terminal polarity. Provides easy terminal identification.
- 5 Heat sealed post seal. Non-corrosive polypropylene-to-polypropylene bond is as strong as the original material.
- 6 Interface between lead post and plastic sleeve. Coated with a viscous agent which guarantees a leak-free bond.
- 7 Modular steel tray. Easy to install.
- 8 Polypropylene jar. Low water vapor permeability.
- 9 Patented MFX positive plate grid alloy. Ideal for both float and cycling applications.
- 10 Space for positive plate growth. Space is provided so growth can occur away from post and cover seals to increase battery life.
- 11 High separator compression. Eliminates possibility of loss of capacity and degradation of the plate-to-separator contact.

## Specifications

- System ampere-hour range – 104 to 4800 Ah to 1.75 VPC at 8-hour rate @ 25°C (77°F).
- Electrolyte – 1.310 specific gravity acid.
- Safety vent – 5-10 psi opening pressure, self-resealing.
- Terminals – Solid copper insert.
- Positive plate – Patented MFX grid alloy.
- Negative plate – Lead calcium grid alloy.
- Life expectancy in float conditions – 20 years @25°C (77°F) with proper charging.
- Life expectancy in cycling conditions – 1200 cycles to 80% DOD with proper charging.
- Operating temperature – Temperature excursions between -40°C(-40°F) to +50°C(122°F) allowed (battery performance and life will be affected).
- Self-discharge – 0.5 to 1% per week maximum @ 25°C (77°F).
- Float voltage – 2.23 to 2.27 VPC.



Horizontal stack assembly



Relay rack modules



Single cell module

## GLOBAL OPERATIONS

### NORTH AMERICA

GNB Industrial Power  
Chicago, Illinois U.S.A.  
TEL: 1.630.629.5200  
FAX: 1.630.629.2635

GNB Industrial Power  
Maple, Ontario Canada  
TEL: 1.905.669.9326  
FAX: 1.905.669.7688

### EUROPE

Exide Technologies  
Büdingen, Germany  
TEL: 49.6042.8170  
FAX: 49.6042.81233

### MIDDLE EAST/AFRICA

Exide Technologies  
Abu Dhabi, U.A.E.  
TEL: 971.2.226235  
FAX: 971.2.227644

### JAPAN

GNB Industrial Power Japan  
Tokyo, Japan/Pacific Rim  
TEL: 81.3.5325.6281  
FAX: 81.3.5325.2063

### AUSTRALIA/NEW ZEALAND

Exide Technologies  
Padstow, N.S.W. Australia  
TEL: 61.2.9722.5700  
FAX: 61.2.9774.2966

### SOUTH EAST ASIA

Exide Technologies S.E. Asia  
Singapore  
TEL: 65.546.2866  
FAX: 65.546.2966

### CHINA

Exide Technologies  
Hong Kong, China  
TEL: 852.3106.2668  
FAX: 852.3106.0260

Exide Technologies  
Beijing, China  
TEL: 86.10.6510.2910  
FAX: 86.10.6510.2912

### LATIN AMERICA

GNB Industrial Power  
Chicago, Illinois U.S.A.  
TEL: 1.630.629.5200  
FAX: 1.630.629.2635

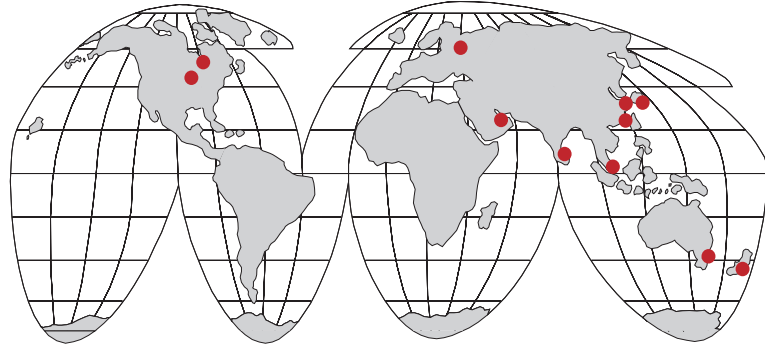
### INDIA

GNB Industrial Power  
Bangalore, India  
TEL: 91.80.550.0581  
FAX: 91.80.550.0582

[www.gnb.com](http://www.gnb.com)

SECTION 26.05 REV 05/02  
Printed on recycled paper.

## Industry Leader in Network Power...



The Network Power Division of Exide Technologies is *the* global leader in stored electrical energy solutions for all major critical reserve power applications and needs. Such network power applications include communication/data networks, UPS systems for computers and control systems, and electrical power generation and distribution systems. With a strong manufacturing base in both North America and Europe and a truly global reach (operations in greater than 80 countries) in sales and service, the Network Power Division has all of the tools necessary to satisfy your power needs.

## Global Brands...

**ABSOLYTE**

**MARATHON**<sup>TM</sup>

**Sprinter**

**GNB Flooded Classic**

**Sonnenschein**

Based on over 100 years of technological innovation, the Network Power Division continues to lead the industry with such recognized global brands as Absolyte, Sonnenschein, Marathon, Sprinter, and Flooded Classic. These products and brands are synonymous with quality, reliability, performance and excellence in all markets served.

## Total Battery Management...



In addition to being the leader in delivering premium products to the market, Exide Technologies takes pride in its commitment to the environment. As part of a complete approach to manufacturing, distributing, and recycling lead acid batteries, the Total Battery Management program has been developed to ensure a safe and responsible life cycle for all of our products.

**GNB**

**INDUSTRIAL POWER**

A Division of **EXIDE** Technologies

