



# Powering Entel's Telecommunications Internet Network



To Entel - Chile S.A., the leading telecommunications company in Chile, keeping its phone system operational 100 percent of the time has always been essential. Now Entel must also keep its network of servers up 100 percent of the time. For Entel is now the leading Internet Service Provider in Chile. Both applications require one fundamental ingredient: reliable power. To maintain the highest availability of power, Entel has turned to Teknica Chile S.A. and Exide Electronics as the source for Uninterruptible Power Systems (UPS).

The Entel Tower in Santiago is the centerpiece of Entel's massive telecommunications network. Through this tower passes tens of thousands of simultaneous conversations, financial transactions, faxes and other information. The power for the transmission equipment which require AC, network supervision terminals, operator's traffic position, computer terminals and other associated equipment is protected by three Exide Electronics' Powerware® Plus 80 UPS. The units were installed and are serviced by Teknica Chile, an authorized distributor of Exide Electronics' products in Chile.

***The Powerware Plus 80 is now also used to back-up the increasingly important Internet servers that Entel has in operation. With over 16 servers, more than 5000-access port and over 60 percent market share, Entel has become the dominant force in Internet services in Chile. In E-commerce, availability is everything, so Entel chose the highly reliable Powerware Plus 80 to back up its server farm.***

The Powerware Plus 80 is a sophisticated on-line UPS designed and built for mission critical applications. It features industry leading reliability which results from a design with a low component count and only four printed circuit boards (PCBs). By using software instead of hardware for much of the functionality and other innovative techniques, Exide Electronics engineering team easily surpassed competing UPS companies which can have 17 or more PCBs. With each additional PCB the chance of a failure increases. The Powerware Plus 80 also has redundant fans and control power supplies to further enhance reliability.

The Powerware Plus 80 has a rich set of features for management, monitoring and control. Battery management is easy with the DC Expert system providing battery



 **BTR**  
A member of the BTR Group

**EXIDE**  
**ELECTRONICS**  
Strategic Power Management™

# customer *profile*

time indication and automatic battery tests. Also, through Remote Notify, key personnel can be alerted based on over 100 alarm conditions. This rapid warning provides critical time to take necessary action. With available software such as PowerVision®, the user can set up customized outcall sequences and also track important power parameters. Through analysis of the tabulated and graphical data, chronic power problems can be more easily resolved.

"The Powerware Plus 80 provides the backup power and the level of quality we needed to ensure uninterrupted service to our customers. Our customers depend on our telecommunications network and Internet servers and we depend on Exide Electronics' UPS to eliminate potentially disastrous power problems," said José Gisla, Manager of Civil and Energy Infrastructure for Entel.

Entel's use of UPS extends throughout its far reaching network. At the Longovilo Station, a satellite transmitting and receiving facility located 150 km from Santiago, Entel is using a Powerware Hot Sync™-Redundant System featuring two Powerware Plus 250's and a Series 5000, 1000 KVA system to backup its telecom equipment. With so much commerce, that conducted by Chilean and other banks, flowing through microwave, satellite and fiberoptic links managed by Entel, the company could not take a chance on unpredictable power or on anything less than Exide Electronics' UPS.

With almost 35 year's experience, Entel offers a wide range of products and services including domestic and international long distance communications, cellular phone service, phone cards, computer network communications and an array of Internet related products services. The company had 1997 sales revenue equivalent to \$443 million dollar (US) and has 4357 employees who directly or indirectly work for the company.



*"The Powerware Plus 80 provides the backup power and the level of quality we needed to ensure uninterrupted service to our customers. Our customers depend on our telecommunications network and Internet servers and we depend on Exide Electronics' UPS to eliminate potentially disastrous power problems," said José Gisla, Manager of Civil and Energy Infrastructure for Entel.*

#### **World Headquarters**

8609 Six Forks Road  
Raleigh, NC 27615 U.S.A.  
U.S. & Canada: 1-800-554-3448  
U.S. Telephone: 919-872-3020  
U.S. Fax: 1-800-75-EXIDE  
International Fax: 919-870-3300  
E-mail: [info@exide.com](mailto:info@exide.com)  
URL: <http://www.exide.com>

#### **Latin America/Caribbean**

Telephone: 305-558-1464  
Fax: 305-558-0797

#### **Europe/Middle East/Africa**

Telephone: 44-1753-686200  
Fax: 44-1753-686827

#### **China/Asia Pacific**

Telephone: 852-2745-6682  
Fax: 852-2745-6177

#### **Australia/South Pacific**

Telephone: 61-2-9878-5000  
Fax: 61-2-9878-555