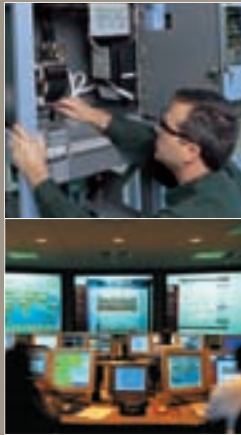




## Intergy DC Power Systems



*Analog or digital, wireless or fixed line, central office or remote concentrator - whatever your communications network application, there is an Intergy power solution to suit you.*

The Intergy range includes the Intergy Mini Power System range, suitable for roadside cabinets or customer premises equipment, through the Intergy Medium Power Systems for cell sites, transmission terminals or small-to-medium switches; and up to the Intergy Large Power Systems for major switching installations.

### **Flexible**

A combination of a range of cabinet sizes, a wide selection of interchangeable system modules and the flexibility of software controlled system parameters. Typical applications include all sizes of switching installations, microwave and fiber optic transmission systems, wireless transmitters and base stations, and customer premises equipment.

### **Efficient**

Intergy power systems are pre-configured for fast installation and commissioning. All system settings are fully adjustable in software

and stored in transferable configuration files for repeatable one-step system set-up. Using the leading switch mode technology of the Intergy range, the rectifier modules minimise operating costs and provide advanced features such as constant power output and one-step, software-controlled installation and set-up.

### **Reliable**

Intergy is an investment in the future of your network. Intergy is the most flexible and easily configurable DC power system range available. And, if your network requirements change Intergy systems can be easily expanded or re-deployed to other parts of your network.

### Features

- ▶ High reliability fan cooling
- ▶ 19 " 3U/6U sub-racks, modular and expandable
- ▶ Up to 24 rectifier modules
- ▶ High Power Density (150A/3U,19")
- ▶ Multiple AC option (1Ø, 3Ø, 2Ø)
- ▶ Fast On-Line Replacement of Rectifiers (Hot-Swap)
- ▶ AB Feeds option for DC Distribution
- ▶ Scalable System Solution

### Typical Applications

- ▶ Data Networks and IP Routers
- ▶ Customer Premises Equipment
- ▶ Access Nodes
- ▶ Wireless
- ▶ 3G
- ▶ Broadband



### ▶ Intergy Medium Power Systems 24V up to 34.8kW, 48V up to 52.2kW

### Features

- ▶ Pre-Configured Supervisory Module
- ▶ Fast On-Line Replacement of Rectifiers (Hot-Swap)
- ▶ High Efficiency and Unity Power Factor
- ▶ Downloadable Configuration Files
- ▶ Designed to Maximise Battery Performance
- ▶ Wide AC Input Voltage Tolerance
- ▶ Optional Parallel System Connection Kit
- ▶ Compliance with International Standards

### Typical Applications

- ▶ Data/Customer Premises Equipment
- ▶ Wireless/Cellular/CDMA
- ▶ Central Office



### ▶ Intergy Large Power Systems 48V up to 720kW

### Features

- ▶ 45U Cabinet
- ▶ Pre-Configured Software
- ▶ High Power Density
- ▶ Fast On-Line Replacement of Rectifiers (Hot-Swap)
- ▶ High Efficiency and Unity Power Factor
- ▶ Surge Protection
- ▶ Parallel Systems Option up to 15,000A
- ▶ Compliance with International Standards

### Typical Applications

- ▶ Wireless
- ▶ Transmission Terminals
- ▶ Local and Central Office Switching



In the interests of continual product improvement all specifications are subject to change without notice.



## POWERMANAGERII™

PowerManagerII software provides remote management for Intergy DC power systems via an intuitive, Windows® -based graphical user interface. Alarms are highlighted and detailed to help you analyze faults and PowerManagerII will simplify monitoring of operating conditions such as load growth. You can network as many power systems as you like and set up map views of urban areas or wider regions, to help you visually navigate to any site.

## DC TOOLS™

Intergy DCTools is configuration software for field technicians installing and maintaining Intergy DC power systems.

Frontline staff will find Intergy DCTools is a major benefit during the installation, trouble shooting and support of any Intergy product including all power systems, CellSure battery management systems and SiteSure ancillary monitory and control systems.

Among the advantages of using DCTools are reduced installation times, lower fault response times, less needs to visit sites and better access to operating data for fault analysis

## CELLSURE™

Intergy CellSure is a battery monitoring system that keeps track of a battery 's condition and highlights ahead of time if any maintenance is needed. The modular components are easy to install and can be retrofitted to existing battery systems. If Intergy CellSure is used in conjunction with Intergy DC power systems and PowerManagerII remote control software, then test discharges or refresher charges can be carried out without the need for a site visit. Intergy CellSure is available for both 24V and 48V battery systems in up to four strings, with either 2V cells or 4V, 6V or 12V monoblocs

## SITESURE™

Intergy SiteSure is a suite of add-on modules that use the intelligence and communications capabilities of an Intergy DC power system to control and monitor fire, security, air conditioning, engine alternators or other building services equipment. Remote access to SiteSure at any site via a graphical interface is also available with either the PowerManagerII remote control software or with Intergy DCTools.

### ► Customer Services

The Intergy range of DC power products is backed by expert technical support and customer services. This includes installation and maintenance services, repairs and training courses.

Experienced personnel are available 24 hours a day to provide expert advice on all Intergy products, as well as information on repairs and other services.

### Design Consulting Services

Skilled consultants can provide a full design for DC power equipment to specifically suit individual applications and sites. Using the modular and comprehensive range of Intergy product, a system can be easily designed for any application and advice is given on power equipment, capacity, functionality and battery requirements for installations.

### On-Site Services

Installation teams fully trained on Intergy power systems are available anywhere in the world. Installation and commissioning can be either by supervision and assistance to a network operator's own staff or by providing complete work crews.

### Regional Repair Sites

If a phone call isn't enough and additional assistance is required, Regional Repair Sites, staffed by fully trained technicians, are located globally.



## ► Intergy IPS4000 48V Power Systems

### AT&T Broadband, Voice and Broadband Data

AT&T BroadBand of Chicago, a division of AT&T Corporation, is a communications company providing more than 80 million customers with broadband Internet, cable, local and long distance telephone services across the United States.

In late 1998 they asked local Powerware distributor, Bob Gaw of Kramer Datapower, about DC power systems products that may be available. Bob immediately recommended the Intergy product range, as a solution to his clients needs.

AT&T BroadBand now has Intergy DC power systems installed in ten locations. The systems vary from 200 amps output up to 4000 amps. Intergy has performed "beautifully" according to Bob. He says that the reputation of Intergy products for performance, reliability and service credibility contributed to making Intergy the product of choice. He also acknowledges the Powerware team in the US as being "one heck of a support team"!



## ► Intergy IPS5000 24V Power Systems

### Guangdong Mobile Communication Co Ltd, GSM Base Stations

Guangdong Mobile Communications Co Ltd (GMCC) is an analog cell phone and GSM mobile phone service provider. It is the biggest of all the mobile services companies operating in the provinces of China.

By the end of the first quarter 2001, China was the world's second largest mobile cellular marketplace, with 100 million subscribers. This figure is expected to reach 300 million by 2005.

Guangdong Mobile Communications uses Intergy in Guangzhou, Zhuhai, Zhaoqing and Qingyuan cities. There is a total of approximately 250 sites in these cities in which the Intergy IPS 5000 systems with R1524 (convection cooled, 24V) rectifiers are installed.

"We chose Intergy because of the quality of product and the ability to align with the Guangdong Telecomm Factory in Tiandong," said Mr Liu Gangting, Wireless Department Manager of Operation & Maintenance Division, GMCC.



## ► Intergy IMP5520 48V Power Systems

### Nortel Networks, Roadside Cabinets for Telstraclear

Nortel Networks is a global Internet and communications leader with capabilities, spanning optical, wireless and local Internet, e-business, and personal internet.

Nortel contracted Powerware to supply, install and commission the network access roadside cabinets for the Christchurch rollout of TelstraClear's fibre optic network. Each cabinet has the capability to service 480 subscribers.

Powerware Australia supplied 240 roadside cabinets that have integrated distribution and battery compartment, and are double skinned offering additional security and a more constant environment.

Powerware New Zealand then fitted the cabinets with Intergy IMP5520 DC mini power systems that have a capability of up to 120A at 48V. The mini power systems use a minimum amount of space in the cabinet while still providing more than enough power for the equipment and to maintain the charge on the standby batteries. The cabinets are also fitted with 8 Hawker standby batteries with an embedded venting system.

"Powerware has a skilled work force and a superior level of integration services. The global service offered by Powerware in supplying cabinets, rectifiers and batteries and then managing installation and commissioning is a huge bonus." said Glen Owen, Sales Manager with Nortel in New Zealand.

Overview E, July 2003

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