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NEWMAR Powering the Network

Newmar News

June 2007

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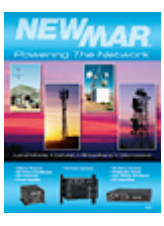

For a complete reference guide to your DC Power needs for wireless networks and land mobile applications, click here to download a printer friendly PDF "Powering the Network" catalog.

Dear Eric,

Welcome to the Newmar News; a quick and easy read, yet presenting relevant DC Power application ideas for Land Mobile, Cellular, Broadband, and Microwave wireless networks. And on occasion, some helpful DC Power tech tips.

We appreciate you taking a little time out of your day to read what is happening while Newmar powers the network. Don't forget to scroll down to the bottom of the newsletter to request your free Newmar Screwdriver.

Regards,
Eric Harmon

"All-in-One-Package" Powers National Park Service Network

The Integrated Power Systems (IPS) supply primary DC power and battery back-up to numerous critical networks. A recent installation required high reliability 12 VDC for land mobile radio base stations for the National Park Service in Utah.

The 2-way radio system consists of a network of base stations and repeaters. Due to the extremely remote areas, most sites operate on stand-alone solar power providing necessary power to the locations' buildings including visitor's centers and employee residences and radio systems. For the locations with utility AC power, it is unreliable and very harsh to sensitive electronic equipment. Because of the rough conditions, the National Park Service wanted to keep all of the sites' critical communication system's power similar, streamlined, and simple. Thus the IPS was chosen

The Integrated Power System, model IPS-12-40, provides 12 VDC directly to the base station's Motorola radios and to the Daniel Electronic repeaters, which are also supplied with utility AC power. Each site is also configured with a bank of external batteries that will utilize the charging circuit of the IPS to provide extended battery back-up.

The unique multifunction "integrated" power supply is ideal for remote critical sites. The IPS contains a power supply and built-in batteries and also features, additional rear battery terminals, which are utilized to tie in additional battery strings for longer ride through during AC power failure. The batteries are always 'in-line' with the load, thus there is no interruption from relays or transfer switches in the event of AC loss. Batteries are recharged when AC is restored. A manual battery disconnect switch allows internal or external battery service or replacement while the system is running. Also, it features an automatic low voltage disconnect to prevent damage to the powered equipment and to protect the batteries from permanent capacity reduction because of a low voltage input.

The Integrated Power Systems, which occupies only 2 RU (3.5") of vertical rack space, also features output metering, LED status, and Form C failure alarm contacts. All are pre-wired and calibrated within the unit for plug-and-play operation. The rear plug-in terminals also make the wiring easy for an additional parallel rectifier input. Also, they feature numerous protection features such as AC input breaker, internal battery breaker, auto thermal shutdown/recovery, current-limiting, short-circuit and over-voltage protection, to guard sensitive electronic equipment from damage.

Models are also available for 24 and 48 VDC outputs in power ratings of 11 - 22 amps.

If you would like an Evaluation Sample Unit for use on your application, click here.

Unity Rectifier System Get's an "A" for Powering a School District's Network

The 48 volt Unity Rectifier System, model UR-48-3, was selected to supply primary DC power and maintain battery back-up for a multi-million dollar licensed microwave project for a large school district in Arizona. The private microwave network and battery backup system is engineered and constructed by an Arizona Network Infrastructure Corporation.

The Unity series rectifier is powering transmitters which are linked by point-to-point microwave technology connecting 47 separate locations in the district, including schools, warehouses, administrative offices and other facilities. The network provides the school district with high speed connections to Internet, as well as data, video and voice systems to increase communication and learning in the classroom.

The Unity, model UR-48-3, provides 48 VDC at 3 amps per modular unit that inserts in a rack mount shelf, which accepts up to 3 modules for N, N+1, and N+2 redundant configurations. Because the school district has critical dependence on this wireless network, additional Unity Rectifier modules provide the wireless system with redundant DC power, thus ensuring a high reliability. Also, with limited rack space available the 1 RU low profile of the Unity system, which occupies only 1.75" of vertical rack space, proved to be an important factor to the system configuration.

The Unity Rectifier System is also available in a 24 volt model that produces 6 amps per modular rectifier.

For additional power level options in a hot swap rectifer configuration, please visit our website.

Meet the New Technical Service Representative

We are please to introduce a new member to our team, Jay Mendosa (left). He is joining our technical service department after working for Lear Baylor Boats, a Southern California manufacturer of electric boats.

His predecessor James 'Mac' MacFarlane, a 9 year veteran of the technical service department has decided to retire to his cabin in Northern California and June 15th was his last day.

If you need assistance during installation or have a question regarding a product already in use, please contact Jay by e-mailing techservice@newmarpower.com or call 800-241-3897. He can also assist you with product selection.

Free Newmar Screwdriver

We would love to hear your feedback on the Newmar News. E-mail us at marketing@newmarpower.com with the subject line "Newsletter" and let us know what you think. Include a mailing address and a Newmar Powering the Network screwdriver will be on its way to you. Thanks!

For more information, please visit www.newmartelecom.com or email us at sales@newmarpower.com.

Sincerely,

Jeff Wright
National Sales Manager

Eric Harmon
Director of Marketing Communications

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