

DC Power Plant Engineering

NEWMAR manufactures a broad range of high quality power products for communication applications and has earned a reputation for producing high reliability DC components and systems for powering the wireless network. In addition, NEWMAR's engineering team offers comprehensive system integration services. These include consultation, engineering, manufacturing, assembly, test, and delivery of fully integrated and functional power plants, precisely tailored to meet individual customer requirements.

Project Consultation

The process begins with a comprehensive analysis of your project's power requirements, offering comprehensive solutions based on all relevant factors, including:

- Load requirements and tolerances
- Site AC power considerations
- Colocation compatibility
- Fault tolerance/redundancy
- Hot swap and hot standby configuration
- Back-up battery run time calculation
- Power distribution requirements
- Remote monitoring and alarming

Engineering and Design

A comprehensive project proposal with a detailed diagram of the proposed custom power system is submitted to you for approval.

Rack Assembly

All necessary components are installed and wired in racks or cabinets according to the particular site requirements. These components are typically manufactured and stocked by NEWMAR, thus assuring high reliability and short lead times for system delivery.

Testing

Each rack component undergoes rigorous "burn-in" testing individually, then the assembled rack system is again fully tested under simulated site load and function conditions to ensure maximum reliability.

Documentation

Custom user manuals are provided with each system, consisting of detailed operation and troubleshooting instructions for each system component, complete schematic diagrams, and a wiring interconnect illustration of the system as a whole.

Shipment

Each rack system is rigidly secured to a custom-built shipping skid and trucked directly to your installation site.

Aftersale Support

A duplicate system file, including detailed photos of the assembled power plant, is maintained at the factory in order to provide ongoing technical support of the system, as needed.



*All necessary
components
factory installed
to meet your
system
requirements.*



Modular Rectifiers
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Hot Swap Rectifiers
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Power Management System
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DC-DC Converters
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DC-AC Inverters
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Distribution Panels
Fuse, Page 10
Circuit Breaker, Page 11



Battery Strings, Page 14



Trays and Shelves, Page 15



Relay Racks

Power Systems by NEWMAR are currently in service at numerous telecom and other communication sites serving public safety, microwave, cellular, transportation links and remote repeaters. System and project references are available upon request.



Powering the Network