



# POWERING TECHNOLOGY

Reliably powering your business.  
Solving your power needs.

## POWER SOLUTIONS FOR UTILITIES





# ABOUT UNIPOWER

UNIPOWER is a world leading provider of dependable high-efficiency power electronics and energy conversion systems and power supplies. UNIPOWER solutions include a complete line of high-efficiency rectifiers, inverters and DC power systems for mission critical applications. With over 25 years experience supporting customers in more than 60 countries, UNIPOWER is focused on bringing reliable power solutions to customers across all applications and environments.

## Our Products

UNIPOWER's latest product offering includes a family of Best-in-Class rectifiers and network power products that achieve efficiency levels as high as 96%. Led by innovative design engineering groups, we are able to provide highly reliable standard products, innovative, robust custom products or modified standard products. Utilizing the latest topologies and digital expertise, we are prepared to meet your demanding custom requirements.

### UNIPOWER PRODUCTS



## Our Customers

UNIPOWER has an installed base of over 300,000 rectifiers and front-ends delivered to world-class companies in North America, South and Central America, Europe, Africa and Asia. Our customers deal with applications in Telecom, Cable, Power Utilities, Energy, and the Municipal market.

## Our promise to you - "Quality Starts With Me"

UNIPOWER's mission is to provide superior service and superior designed, highly robust products for our customers in all markets. We know that understanding our customers means listening to their needs and designing a solution around them.



## Utility Chargers



ARE-S, ARE-M and ARR-M are microprocessor controlled chargers with output voltages of 24VDC, 48VDC, 130VDC or 250VDC. Output currents range from 6A to 100A.

The SCR controlled ARE-S and Ferroresonant ARE-M operate from a single phase input supply at 120VAC, 208VAC, 240VAC or 480VAC. The ARR-M accepts a 208VAC, 240VAC or 480VAC three phase input.

The ARE-M can be optionally fitted with The DNP3 module that enables the unit to communicate with a SCADA system that uses the DNP3 protocol.

## Power Distribution Panels

UNIPOWER Power Distribution Panels include 1RU, 2RU and 3RU models in a variety of configurations including DC types operating at 12V, 24V or 48V and AC types working at 120VAC, 208VAC, 230VAC or 400VAC.

DC panels include breaker and fuse types and all are 19 inch or 23 inch rack mounting. Single and dual bus versions are available.



AC panels include 1RU single and dual bus units operating at 120VAC or 230VAC single phase. For 3-phase applications there is a 3RU panel with options for 120/208VAC input to 120VAC single phase output or 230/400VAC input to 230VAC single phase output. 19 inch and 23 inch rack mounting is available.



## DC Power Systems



Aspiro family are 1RU and 2RU rack-mount systems rated from 45A to 90A at -48V. All systems incorporate MCB load distribution while GMT fuse options are available. Guardian family are available as 2RU to 10RU rack-mount or floor standing cabinet based systems rated from 200A up to 3300A at -48V.

The Sageon family are rack-mounted expandable systems rated from 50A to 1300A and available in both -48V and +24V configurations with either a single bulk output or integrated load distribution.

All DC Power Systems have Battery Monitoring down to the mono block level with SNMPv3.

## Rectifiers & Converters

Aspiro family rectifiers produce a nominal 48V output rated at 400W, 800W and 1200W with efficiency up to 95%.

The Guardian family provides a nominal 48V output at from 2000W to 2900W at efficiency up to 96%. A 1500W dc/dc converter with a 48VDC input and a 24VDC output is also available.



Sageon family rectifiers include both 24V and 48V models rated from 440W to 2400W.

All of UNIPOWER's rectifiers and converters can be installed into matching 1RU high power shelves and are also designed to be used with UNIPOWER DC Power Systems from the same family.

## Embedded Power Supplies

The EASYMOD family rugged industrial grade units is available with output powers from 40W to 350W. All models have a Universal AC Input and are available in single, dual, triple or quad output configurations with output voltages ranging from 1.5VDC to 48VDC.



The DCMOD family offers identical features and capabilities as the EASYMOD. Most types are available with a DC input of 12V, 24V or 48V.



R Series is a range of low cost commercial grade units suitable for less demanding applications. They are single output units with voltages ranging from 5VDC to 60VDC and output powers from 25W to 500W. All versions have a Universal AC input.

## Controllers & Battery Monitors

The ACX Advanced Controller provides comprehensive battery management features for the Aspiro and Guardian systems including temperature compensated charging, non-critical load shedding and full diagnostics & data logging. The proprietary PowCom™ software enables the user to monitor multiple systems at different locations using a highly intuitive GUI. SageView software coupled with the Sageon controller provides similar functionality for Sageon systems.



The Sageon Shield battery monitor is a standalone 1RU high 19" rack-mount unit that can be used to monitor any non-UNIPOWER battery installation. In conjunction with SageView software many of the monitoring features available in Sageon systems are available.

## Batteries



TEL Series Long Duration batteries are designed to provide standby power to critical applications. The range offers capacities from 30 to 125 ampere hours.

Liberty Series 1000 are Valve-Regulated Lead-Calcium batteries designed primarily for standby applications. With Capacities from 100 to 600 Ampere-hours (8 hours to 1.75 VPC) | 343 to 2060 Watts per cell (15 mins to 1.67 VPC), Liberty Series 1000 batteries are engineered to provide performance reliability and consistency over the life of the product. These versatile 10-year life batteries provide superior performance in the most demanding applications.



## Battery Trays and Battery Racks

A complete range of battery trays & battery racks complement the range of batteries we offer to go with our DC Power Systems.

The battery trays are suitable for a variety of 19" or 23" rack-mount applications with versions available to accommodate any of the TEL Long Duration, TEL Full Front Access and Liberty Series batteries.

Battery racks are designed for the TEL Full Front Access batteries. Three models can accommodate a rack-mount DC Power System along with the batteries while 4 models offer NEBS Zone 2 compliance with or without battery breakers.





## Inverters & Inverter Systems



Scimitar inverters deliver 1kVA or 2kVA in a 1RU, 19-inch rack-mountable package. 12/24/48Vin and 110/230Vout capabilities support a wide range of network power, data center, and industrial applications.

## Hybrid Solutions




Hybrid Power Systems are designed to minimize power system life-cycle costs and carbon footprint. Power conversion components deliver leading efficiencies and maximum energy harvest from renewable resources using MPPT algorithms. A Hybrid Bus Architecture delivers available power from renewable resources supplemented by diesel generator or grid supply when necessary.

## Outdoor Cabinets



Outdoor power cabinets feature an all aluminum construction to provide protection and thermal management in a wide range of harsh outdoor environments. Our cabinets protect power equipment from outdoor threats, including a wide range of temperature and weather conditions. They include complete AC distribution and earth connection points and house the power system, DC distribution & system controller and provide space for mounting other equipment.



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