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ENERGY SYSTEMS



The power to succeed



Installation made easy



Gravitas Energy Systems are designed and built to fit into any existing or new network. Installation is simple and quick with 'plug-and-go' facilities allowing your DC power systems to be live and on line in no time at all.



- Modular Approach
- Scaleable Solutions
- Configured to Your Specs
- Quick-Connect Designs
- Hot-Swap Rectifiers

System management



Maintaining the system

Maintenance of Gravitas Energy Systems is simple and straightforward. Non-technical operators will find these systems extremely user-friendly as they can be monitored either on-site or remotely with familiar browser-based menu features.

- Remote Diagnostics
- Remote Monitoring
- Familiar User Interface
- Short Mean Time to Replace
- Low Maintenance

Central to Gravitas Energy Systems is simplicity of management through the overall philosophy of scalability. Gravitas Energy Systems incorporate a fully intelligent microprocessor based digital system controller with remote access capability via a simple to use WEB browser interface. Optional SNMP status & alarm facilities can also be provided.

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X450 & X650

Built in a standard 600 x 600 x 2200 enclosure, Gravitas X450 and X650 utilise up to 16 ultra-high efficiency hot-swap 48V/37A BLUESTREAK Series rectifiers. These systems can house 3 strings of 175AH batteries giving around 1 hour of autonomy. Individual AC circuit breakers are provided for each rectifier and DC distribution for up to 36 separate loads is also included. The DSC1000 system controller provides a user friendly WEB based operator interface for monitoring and setting up the system using a standard PC browser. Optional capabilities include a backed-up AC output offering up to 9kVA capacity and for 2G 'legacy' equipment a hot-swap DC/DC converter system can also be specified.



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X200



Gravitas X200 utilises the latest ultra-high efficiency hot-swap BLUEstreak rectifiers to provide unparalleled power density in a 2RU high 19" rack-mount system enclosure. X200 can deliver up to 148A total output capacity at 48VDC, 24VDC or 12VDC. DC distribution is provided via up to 10 pluggable circuit breakers while a remote access system controller with programmable Low Voltage Disconnect provides comprehensive management and monitoring capability, both from the front panel controls and via a user-friendly WEB browser interface. A 1RU high DC distribution expansion unit doubles the number of load circuits to 20 and increases the overall output capacity to 220A at 24V and 12V while a further 1RU rectifier expansion shelf allows the same 220A at 48V.



High efficiency rectifiers

BLUEstreak™ is the latest generation ultra-high density hot-swap rectifier producing up to 2000 watts output power at up to 92% efficiency



and a power density up to 24 watts per cubic inch. Automatic load sharing and an active output ORing circuit allow modules to be reliably hot-swapped while the system is operating. PMBus compliant serial communications enables status and control data to be passed between the system controller and each rectifier module.

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X75 & X75L



Gravitas X75 and X75L are ultra-low profile systems aimed at applications where space is at a premium. These systems can provide up to 36A at 48V, 55A at 24V or 75A at 12V with 3 high density hot-swap rectifiers. Housed in a 1RU 19" rack-mountable chassis these systems also incorporate 5-way breaker or 10-way fused distribution along with an individual AC feed for each rectifier via standard IEC320 inlet plugs. X75 systems include a system controller with remote access capability along with programmable Low Voltage Disconnect as standard; while an optional 1RU expansion shelf allows for an additional 3 rectifiers to be installed to a maximum 75A capacity. For less critical applications where remote access and full system management are not a requirement X75L offers a lower cost alternative.

X100



Gravitas X100 is a 19" rack-mount system designed to address the needs of small to medium scale power requirements. The 2RU high system chassis houses up to 3 hot-swap 48V/25A, 24V/33A or 12V/50A rectifiers. DC distribution is available either via up 8 circuit breakers or with 10 GMT fuses. A system controller with remote access is standard along with a fully programmable Low Voltage Disconnect.

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Inverters



SABRE Series

Gravitas SABRE is an integrated inverter power system, including, inverters, static transfer switch, controller, and remote communications interface. The modular design and N+1 redundant capability allows the system to be configured for a variety of power requirements. The static transfer switch provides automatic instantaneous load transfer, ensuring secure uninterrupted operation of sensitive electronic equipment. The system controller gives real-time system status via an LCD display and LED indicators and also allows settings to be programmed through the front panel or remotely via the communications interface. A number of 'out-of-the-box' pre-configured systems make installation an easy task.

DC/DC Converters

The PowerCassette 1U high DC/DC converter systems convert a 48VDC nominal input to 12 and 13.6VDC at 1800 and 1950 watts respectively, or to 24 and 27.2VDC at 2,100 watts; or a 24VDC nominal input to 48 or 54.4VDC at 3,000 watts. These systems consist of three DC/DC converter modules fitted into a parallelable 1RU high 19" rack-mount shelf. The input is a wide range 40 to 60 or 20 to 30VDC, and the output has a -25 to +10% adjustment range. In 2+1 redundant operation single shelf output is 1,400 watts for the 48V input units or 2,000 watts for the 24V input units. These systems can be easily coupled with any of the Gravitas DC power systems and may be incorporated within the X450 or X650 system enclosure.

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*Powering the successful
businesses of the future*

IN THE EVER-CHANGING WORLD OF TELECOMMUNICATIONS, GRAVITAS ENERGY SYSTEMS FROM UNIPOWER TELECOM SET NEW STANDARDS IN SUPPLYING COMPLETE POWER SOLUTIONS. GRAVITAS ENERGY SYSTEMS HAVE BEEN DESIGNED WITH ONE SINGLE PURPOSE: TO PROVIDE SCALEABILITY FOR POWERING COMMUNICATIONS EQUIPMENT.

SIZE IS AN ALL-IMPORTANT FACTOR WHEN DEVELOPING POWER SOLUTIONS AND GRAVITAS ENERGY SYSTEMS, WITH FULLY EXPANDABLE POWER, IS THE MOST FLEXIBLE ANSWER.

AS YOUR BUSINESS GROWS AND EXPANDS INTO NEW TERRITORIES, SO WILL YOUR NEED FOR DC STANDBY POWER CHANGE. IT IS THEN YOU WILL FIND THE DECISION TO CHOOSE GRAVITAS ENERGY SYSTEMS THE RIGHT ONE.

GRAVITAS ENERGY SYSTEMS INCORPORATE FLEXIBILITY FOR ALL FUTURE REQUIREMENTS. THE EXPANDABLE PLATFORM BASE PROVIDES POWER SOLUTIONS TO MEET ALL APPLICATION NEEDS.

SO WHEN YOU ARE CHOOSING THE RIGHT POWER SOLUTION FOR TOMORROW, CHOOSE GRAVITAS ENERGY SYSTEMS TODAY, FUTURE SUCCESS MAY DEPEND ON IT.



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UNIPOWER TELECOM, AS A BUSINESS FOCUS OF UNIPOWER CORPORATION FOR MORE THAN 10 YEARS, WAS LAUNCHED WITH THE EXPRESS AIM OF PROVIDING POWER SOLUTIONS TO THE RAPIDLY EVOLVING TELECOMMUNICATIONS INDUSTRY.

OUR EXTENSIVE EXPERTISE IN HOT-SWAP, HIGH-DENSITY POWER SYSTEMS HAS BEEN LEVERAGED INTO A "CORE" FAMILY OF LOW PROFILE RECTIFIERS AND SHELVES WHICH FORM THE FOUNDATION OF BOTH GRAVITAS ENERGY SYSTEMS AND A FULLY MODULAR RANGE OF 19" AND 23" RACK MOUNTED POWER SYSTEMS ELEMENTS INCLUDING CIRCUIT BREAKER AND FUSE DISTRIBUTION PANELS, LOW-VOLTAGE DISCONNECT UNITS, CONTROL AND MONITORING SYSTEMS, BATTERIES, BATTERY TRAYS AND INVERTERS.

WORLDWIDE HEADQUARTERS ARE LOCATED IN CORAL SPRINGS, FLORIDA WITH EUROPEAN OPERATIONS BASED AT LANCING, ENGLAND.



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