



GUTOR SDC RECTIFIER / BATTERY CHARGER

Industrial DC power supply system with
galvanic isolation.

Fully compliant with IEC standards.

Gutor SDC is an industrial battery charger
and DC power supply system with a thyristor
controlled rectifier designed to secure critical
industrial applications in harsh environments.



Designed for Harsh Environments

- Transformer base provides full galvanic isolation to prevent electric shock and suppress harmful electrical noise.
- Robust industrial enclosure up to IP42 / NEMA 2*.
- Seismic design for peak spectral acceleration up to 1.0 g*.
- Operation temperature up to 55°C.
- Printed circuit boards have conformal coating to protect against moisture, dust, chemicals, and extreme temperatures.
- Tinned copper bars for harsh environments are available as an option.

*Higher options available upon request

Adaptable and qualified design

- Extensive range of input and output voltage.
- The rectifier is sized to simultaneously supply 100% load and boost charge the battery.

Highest reliability

- High Mean Time Between Failures (MTBF).
- Longer product lifespan, with minimal servicing required.
- Parallel or redundant capabilities to increase availability.
- Controller firmware and hardware are compliant with IEC 60880 for NPP (Nuclear Power Plant) applications.
- Independent System Surveillance (ISS) provides health supervision of all critical components to prevent the system from freezing and shutting down.



Internal view of
a SDC single
configuration
system.

GUTOR PEW AC UPS

Customizable double-conversion UPS system with galvanic isolation supporting long backup times.



Gutor PEW is an industrial online double conversion single-phase UPS system with thyristor-controlled rectifier and IGBT-PWM inverter designed to secure critical applications in harsh environment.

Designed for Harsh Environments

- Transformer base provides full galvanic isolation to prevent electric shock and suppress harmful electrical noise.
- Robust industrial enclosure up to IP42/NEMA 2*.
- Seismic design for peak spectral acceleration up to 1.0 g*.
- Operation temperature up to 55°C.
- Printed circuit boards have conformal coating to protect against moisture, dust, chemicals, and temperature extremes.
- Tinned copper bars for harsh environment are available as an option.

*Higher options available upon request

Adaptable and Qualified Design

- Extensive range of input and output voltage.
- The rectifier is sized to simultaneously supply 100% load and boost charge the battery.
- Strong chargers support various battery types and address long backup time.



Highest Reliability

- High Mean Time Between Failures (MTBF).
- Long product lifetime with minimal servicing required.
- Parallel or redundant configuration to increase availability.
- Its controller firmware and hardware are compliant with IEC 60880 for NPP (Nuclear Power Plant) applications.
- Independent System Surveillance (ISS) provides a health supervision of all the critical components to prevent the system from freezing and shutdown.

Smart Communication

- Display with 7 languages.
- Relay board, 16 fail-safe NO/NC contacts.
- A wide communication protocol allows Gutor PEW to be seamlessly integrated into your monitoring system.
 - Freely programmable alarms and meters.
 - Communication via modbus, TCP/IP, IEC 61850, RS485.
 - Web interface for remote monitoring.
- Gutor PEW supports EcoStruxure.
- Cybersecurity according to IEC 62443 to meet requirements from GDPR and California law SB-327.



GUTOR PDW AC UPS

Customizable double-conversion UPS system with galvanic isolation supporting long backup times.



Gutor PDW is an industrial online double conversion three-phase UPS system with thyristor-controlled rectifier and IGBT-PWM inverter designed to secure the critical applications in harsh environment.

Designed for Harsh Environments

- Transformer base provides full galvanic isolation to prevent electric shock and suppress harmful electrical noise
- Robust industrial enclosure up to IP42/ NEMA 2*
- Seismic design for peak spectral acceleration up to 1.0 g*
- Operation temperature up to 55°C
- Printed circuit boards have conformal coating to protect against moisture, dust, chemicals, and temperature extremes
- Tinned copper bars for harsh environment are available as an option

Adaptable and qualified design

- Extensive range of input and output voltage
- The rectifier is sized to simultaneously supply 100% load and boost charge the battery
- Strong chargers support various battery types and address long backup time

*Higher options available upon request

Highest Reliability

- High Mean Time Between Failures (MTBF)
- Long product lifetime with minimal servicing required
- Parallel or redundant capable to increase availability
- Its controller firmware and hardware are compliant with IEC 60880 for NPP (Nuclear Power Plant) applications
- Independent System Surveillance (ISS) provides a health supervision of all the critical components to prevent the system from freezing and shutdown

Smart communication

- Display with 7 languages
- Relay board, 16 fail-safe NO/NC contacts
- A wide communication protocol allows Gutor PDW to be seamlessly integrated into your monitoring system
 - Freely programmable alarms and meters
 - Communication via modbus, TCP / IP, IEC 61850, RS485
 - Web interface for remote monitoring
 - Gutor PDW supports EcoStruxure
- Cybersecurity according to IEC62443 to meet requirements from GDPR and California law SB-327

GUTOR MODULAR AC UPS SYSTEM

Compact, flexible, redundant, and scalable industrial grade AC power protection.

Gutor Modular UPS systems are designed, tested, and built to last - even in harsh environments - with highly flexible configurations.

Designed for harsh environments

- Protects against electrical outage with surge protection and galvanic isolation
- The short circuit capability allows it to be installed near substation equipments
- Industrial enclosure with unique framework increases robustness and protection
- IP20 as a standard, up to IP42 on request
- Has a 20+ years design lifespan

Enhanced system availability

- N+1 or N+x design increases the internal redundancy of the system
- All Gutor Modular power modules have a "live swap" concept that allows the power modules to be maintained and repaired without interrupting the load



Bottom entry

Top and bottom entry

Flexible and scalable design

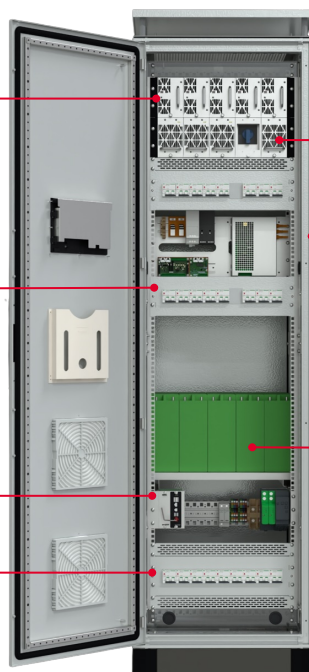
Independent modular chargers with internal redundancy and power factor correction

Breakers for input, output, battery, bypass & manual bypass (up to 65kA)

Advanced asset management

- Ready to connect to most communication protocols
- Cybersecure certified

Integrated output feeders



Modular inverters associated with **static and manual bypass switch**

Cable entry

- Bottom cable entry allows for a smaller footprint
- Top and bottom with a wider enclosure

Battery

- Ready for lead acid (VRLA and VLA), NiCd, Li-Ion, and SMC
- VRLA and SMC batteries can be integrated into one cabinet to achieve footprint optimization

GUTOR MODULAR DC CHARGER

Compact, flexible, redundant, and scalable industrial grade DC power protection.

Gutor Modular charger systems are designed, tested & built to last in harsh environments, with highly flexible configurations.

Designed for Harsh Environments

- Protects against electrical outage with surge protection and galvanic isolation
- The strong input short circuit capability allows it to be installed near to substation equipments
- Industrial enclosure with unique framework increases robustness and protection
- IP20 as a standard, up to IP42 upon request
- Has a 20+ years design lifespan

Enhance System Availability

- N+1 or N+x design increases the internal redundancy of the system
- All Gutor Modular power modules have a "live swap" concept that allows the power modules to be maintained and repaired without interrupting the load



Bottom entry

Top and Bottom entry

Flexible and Scalable Design

Power modules
1ph+N or 2ph input



Input, output and
battery breakers
(up to 65kA)

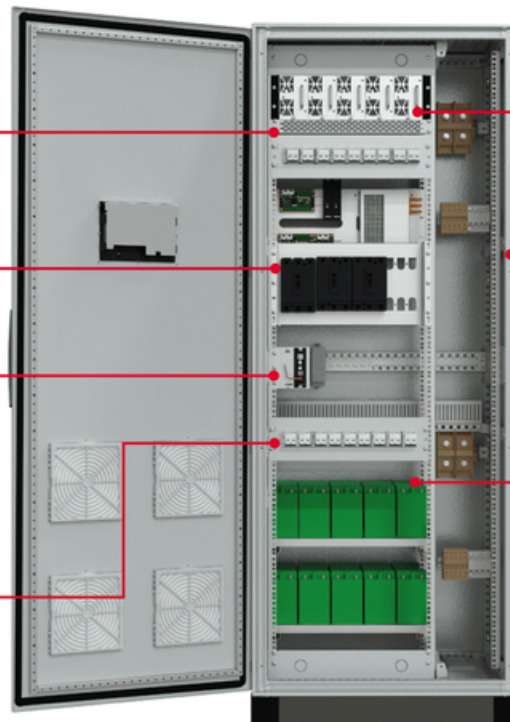


Advanced asset
management



- Ready to connect to most communication protocols
- Cybersecure certified

Integrated
output feeders



Power factor correction



Cable entry

- Bottom cable entry with smaller footprint
- Top and bottom with wider enclosure



Battery

- Ready for lead acid (VRLA and VLA), NiCd, Li-Ion, and SMC
- VRLA and SMC batteries can be integrated into one cabinet to achieve footprint optimization



GUTOR BATTERY MANAGEMENT SYSTEM

Increase your battery availability with advance monitoring process

A single battery failure can seriously hurt your business operations in terms of cost and reputation. The G.BMS standalone battery monitoring and management system maximizes your availability by monitoring the batteries and utilizing an automated warning system to ensure they are always in the perfect state of health. It is the ideal system for lead-acid batteries, NiCad, NiMH and most types of Li-ion accumulators.

Cost effective

A flexible solution for remote monitoring of the batteries, reducing manpower and lowering operational costs, permitting faster and more accurate responses on site.

Extends battery life

Equalization, a patented balancing voltage process, regulates the voltage of all batteries to the target value defined by the charging controller. It keeps all the batteries in the optimum operating voltage range and supports to reach the batteries design life time.

Reduce turnover rate

The capability of the G.BMS in identifying underperforming cells, result in the ability to specify replacements and save resources. This in turn will drastically reduce the turnover rate of your batteries.

24/7 monitoring

Advanced programmable alarms and a remote monitoring system that gives you access to all measurements via TCP/IP. The data-based operation system can generate open analysis and be integrated into Gutor monitoring solutions.

