Built-in intelligence makes it easy to correctly configure charger for battery and site conditions
Battery check system automatically tests battery to reduce risk of unexpected application shutdown
Black box data recorder helps spot previously hidden problems and direct preventive maintenance
Advanced user interface, USB PC utility provide easy to understand system status and control
Dual microprocessors, digital load sharing minimize risk of single point failure
Modbus communication option provides remote monitoring, administration
Consulting – Specifying Engineer 2009 Product of the Year

- Rugged utility-grade charger
- C-UL listed, CE Marked
- Filtered output
- Temperature compensation
- Optional Modbus data communications
- IBC seismic certified, optional OSHPD pre-approval

- Backlit, full-text LCD
- Simple charge mode control
- LED system mimic panel
- Battery check system
- Onboard data logger
- Battery Expert System
- Dual microprocessors
- All-digital design – no potentiometers
EnerGenius IQ is a rugged utility-grade battery charger/rectifier with microprocessor control.

In addition to providing DC power and charging your battery, EnerGenius IQ automatically tests your battery performance, logs all relevant site data and clearly communicates results.

**Key Features**

**Constant voltage, current limited and filtered DC output**
Simultaneously supplies smooth DC to critical loads, recharges the connected system battery and automatically maintains flooded lead-acid, VRLA, or nickel-cadmium batteries in peak condition.

**Integrated battery check system cuts risk of undetected battery failure**
Batteries have limited lifetimes, and can fail without warning. The on-board battery system determines if your battery can support a connected continuous load without taking the battery offline or shutting down charger input power.

**Black box recorder discovers hidden battery and site data to direct preventive action**
Data recorder captures and logs previously unavailable system and site data. Data helps to perform failure analyses and to demonstrate if site conditions are conducive to long battery life. Users can leverage this knowledge to improve reliability of battery sites throughout their networks.

**Dual microprocessors minimize risk of single point failure**
Dual microprocessors provide internal fault tolerance, and provide a level of system reliability superior to either conventional analog or single microprocessor-controlled chargers.

**Optional multi-function communications module extends the IQ’s capabilities to the network**
CommsGenius provides Modbus networking (RS-485 and Ethernet), precise digital load sharing for two chargers, and PC-based charger setup & administration.

**Maximizes DC system reliability at lowest total cost**

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**Applications**

- Refineries and chemical plants
- DC control systems
- Engine starting
- Oil and gas pipelines
- Offshore platforms
- Electric utility substations
- Switchgear
On-board Information Technology Takes System Reliability to a New Level

• Battery check system
• Industry-first “black box” data logger

Standby batteries have limited lifetimes and typically fail without warning – causing costly application shutdown. SENS EnerGenius IQ integrates battery checking and system data logging functions into the charger, making DC system health assessment less costly and easier to use than ever before.

• Insight GUI application makes history data easy to understand

SENS Insight is a PC-based application that converts charger history data into easy-to-understand charts and tables. Insight helps you to see and compare a variety of different analog and digital information. Understanding this information helps avert system downtime, and is essential in performing root cause diagnosis of system problems.

• Setup Utility GUI application makes setup a snap

SENS Setup Utility is a PC-based application that communicates with the charger over USB. It is included with the Modbus communications option and the forced load share & remote temperature compensation package. Setup Utility’s GUI makes communications parameter setup easier than ever before, and enables deployment of pre-programmed standard voltage and alarm settings to multiple chargers, as might be required across a fleet of chargers.