# **Bat-Control**

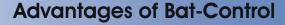
## Battery control system "Bat-Control"

The battery control system "**Bat–Control**" is supervising the charging and discharging processes of the battery, its operating conditions and is storing the parameters gained during this procedure. This data can later be selected and read-out at any time.

The data received during the supervision process serves to control the battery regarding its operating conditions as for example:

- Charge state
- Discharge depth
- Battery temperature
- Deep discharges
- Number of cycles
- Long holding times in a discharged state
- Overstressing by elevated discharge currents
- Mean voltage deviations





- Integrated invoicing of energy for rental or leasing batteries
- Storage of 1200 complete data records
- Battery voltage range 24 96 V
- Comprehensive software for evaluation and invoicing of consumed Ah and kWh, charged Ah, charging factor, max. battery temperature, average battery temperature
- 3 types of Bat-Control for 100-400 Ah, 410-800 Ah and 810-1600 Ah
- Display and calculation of stress factors such as excess temperature, increased charging current, total discharge, half-voltage failure, holding time in a discharged state
- Recording of energy consumption
- Automatic invoicing





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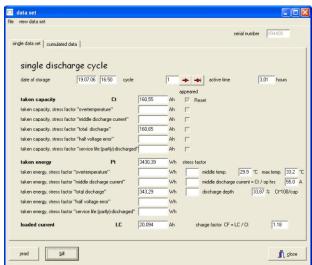
### Supervision of the battery

In this appliance, Bat-Control has the function of a monitoring system. The complete battery-relevant data is being determined and stored.

When a battery failure occurs, the relevant data can be read out and evaluated in order to detect the cause of the failure and to solve the problem.

### During each discharge cycle, the following data is being stored:

- The average discharge current
- The average and max. battery temperature
- The discharge depth
- The charging factor
- Potentially arising stress factors such as excess temperature, increased charging current, deep discharge, half-voltage failure, holding time in a discharged state



It is possible to store 1200 complete data records. Once available storage space is full, the oldest data will be deleted accordingly, each time new data is being entered.

#### The following data is being stored cumulatively:

- Number of cycles
- Operating hours
- Total sum of consumed Ah and kWh
- Total sum of charged Ah
- Cumulated charging factor

With Bat-Control you have a complete and verifiable survey of the operating conditions of the battery.

The cumulated data can be selected in order to analyse the failure cause.

#### Integrated invoicing for rental batteries

