

Excellent Technology, Efficiency and Quality



# BELATRON High-Efficiency Charging Systems are cost-effective due to supreme energy efficiency



## Energy efficiency

With a degree of efficiency of up to 96% and a  $\cos \phi$  of up to ~1, the required mains power is reduced and therefore also the investment, installation and operating costs.

The compact design allows for high-density installations in the smallest of spaces, reducing the amount of space required for the charging station.

Expansion of the reactive current compensation system is not necessary due to the sinusoidal current consumption and excellent power factor.

## Environment

The use of highly efficient charging technology can reduce CO<sub>2</sub> emissions to a minimum.

The ideally smoothed charging current, combined with cutting-edge charging characteristics, allows uniform temperature charging, increases service intervals and prolongs the lifespan of the battery.

Adherence to the electromagnetic compatibility (EMC) class A and B threshold values avoids any operational faults.

## Flexibility

The multi-voltage feature allows different types of batteries to be charged using a single BELATRON charging unit.

Using a battery ID chip or a BATCOM digital battery controller, charging parameters can be individually adjusted at any time to suit all battery types and/or environmental conditions.

The variably programmable charging curve allows for effective pulse charging, as well as future-proofed adaptation of the charging parameters for new battery types and future optimisation of the charging process.

# Optimise charging processes, increase availability, collect, use and analyse data.



BELATRON, 48 V - 240 A,  
Cabinet: WT120

BELATRON, 80 V - 255 A,  
Cabinet: WT180

## The best technology for your charging station

For over four decades now, BELATRON has been associated with advanced and pioneering charging technology. BELATRON high-efficiency charging systems have an efficiency factor up to 96% and operate using a regulated charging curve in order to prevent overcharging and undercharging due to fluctuations in the mains supply voltage.

The charging units can be configured for use with both (E) PzS and (E) PzB as well as AGM traction batteries. All relevant charging characteristics are stored in the internal memory of the unit.

The high-frequency technology of the power unit allows the BELATRON high-efficiency charging systems to be installed in compact and functional wall-mounted casings. Higher capacity power units can be stationed in free-standing cases.

## Bidirectional communication between the charging unit, battery controller and PCs, tablets or smartphones.

Optionally, wireless data exchange enables two-way communication. Using the appropriate app for a range of different devices

**Bluetooth®**  
The graphics user interface allows up to date battery and device information to be retrieved quickly and easily.



and the Bluetooth® low energy technology, you can set up a quick and uncomplicated connection with the BATCOM digital battery controller as well as PCs and mobile devices, such as tablets and smartphones.

This allows optimal coordination for various things, such as:

- Adapting the charging behaviour to the battery temperature (e.g. in cold storage warehouses or where there is a high ambient temperature)
- transfer of battery data to configure optimal charging parameters
- Optimisation of fleet deployment

