

The new charging station

compleo™



Efficient Technology.

Built to last.

Good for the Environment.

It is about time to switch to renewable energy sources. At present, everybody is talking about electric vehicles. But this calls for the development of suitable infrastructural concepts.

That's exactly what EBG has been doing. With our new charging column **compleo™** we are able to offer an electric charging station with many innovative details. It represents six decades of energy supply experience combined with modern technology. For an energy-charged future.

compleo™

Minimum effort. Maximum safety.

The future belongs to state-of-the-art electrical vehicles. But they call for a different way to think about providing the necessary fuel.

The tank of a conventional car can be filled within minutes. The charging of a battery takes time. So it makes sense to place charging stations at places where cars are standing for a longer period of time, such as

- Multi-story car parks
- Shopping centers
- Public or company parking lots

Of course this implies that the owner would normally leave his car during the charging process. So, a charging station must be very reliable and absolutely safe. **compleo™** answers these requirements perfectly. It is not only easy to handle, it also offers maximum safety for users.

One column. Two outlets.

On both sides of the charging station, there is a charging socket so that **compleo™** can be used by two cars simultaneously. If one outlet is already occupied, the other one will be offered automatically. Both sockets are equipped with a LED lighting device so that charging can also be carried out when lighting conditions are unfavorable.

Closed against vandalism.

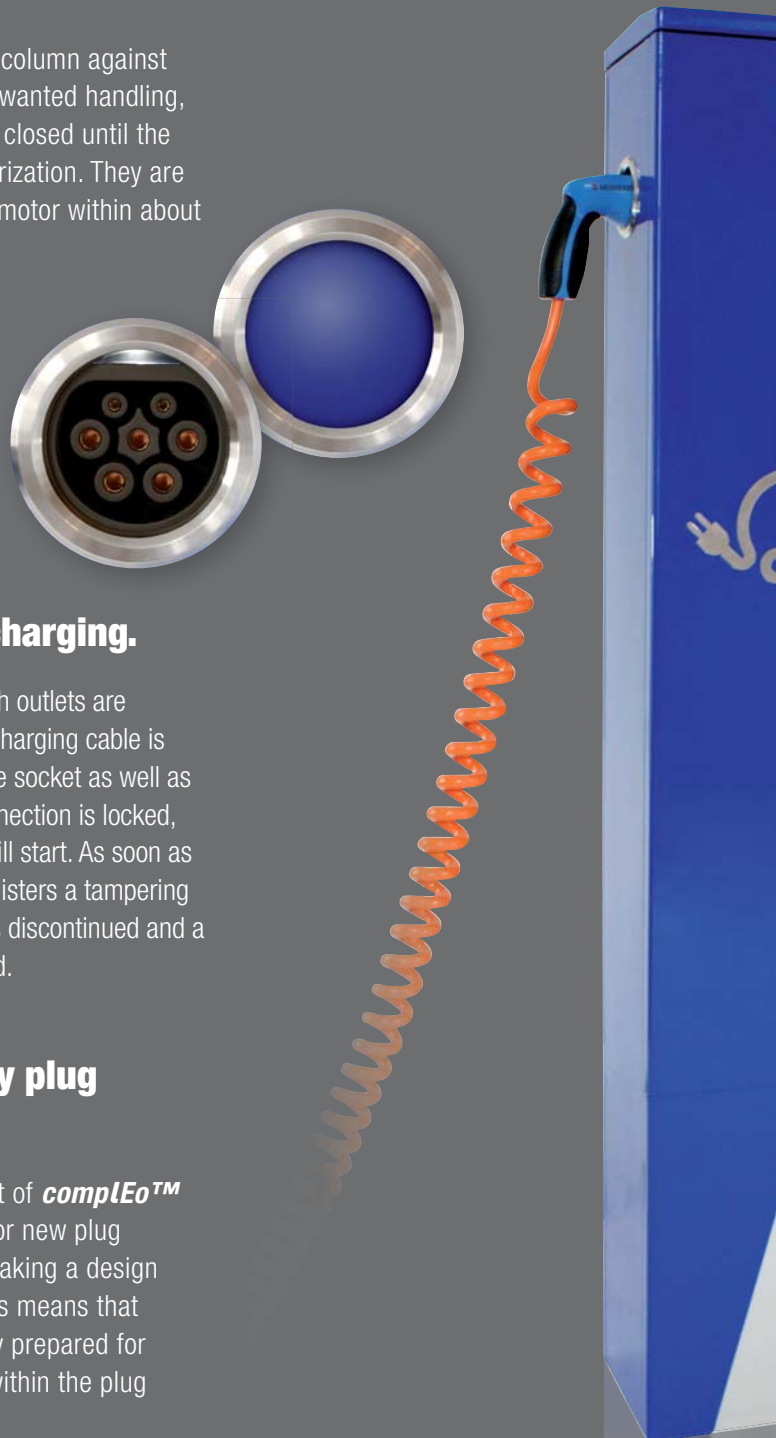
In order to protect the column against humidity as well as unwanted handling, the outlets will remain closed until the user has gained authorization. They are opened by an electric motor within about 0.5 seconds.

Open to problem-free charging.

Even when opened, both outlets are de-energized until the charging cable is mounted correctly in the socket as well as in the car. After the connection is locked, the charging process will start. As soon as the charging station registers a tampering attempt, the charging is discontinued and a problem report is issued.

Ready for every plug solution.

The innovative concept of **compleo™** includes the support for new plug geometries without making a design change necessary. This means that **compleo™** is already prepared for future developments within the plug technology.



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Power by call.

Admission for access to **compleo™** is handled either by a RFID chip recognized by a reading device, or by using a mobile phone. The user can call the number listed in the display and identify himself for instance by pressing his PIN. After successful authorization, the outlet is opened and charging can be started. Ending the charging process and unlocking the cable works the same way. Consumption data are sent to the customer via short messages – just like the problem reports which inform the customers in case someone tried to tamper with the cable connection.

the LED signals which display the operating status. It supervises the fuses, the socket drives and contacts, as well as safety circuit breakers and switches. By using separate circuit boards, the controls of the charging station are galvanically separated from the charging unit.

In case of a malfunction, the unit causes the display to issue an alarm and sends a message via a GPRS module to a defined group of recipients. If needed, data can also be transferred for statistical measures or for payment systems. It is also possible to consider customer-specific solutions when programming the micro-controller unit.



Housing: unbreakable. Design: unbeatable.

The **compleo™** housing is made of fiberglass reinforced polyester SMC – time-tested through sixty years of experience with outdoor distribution cabinets. This material is weatherproof, shock resistant, non-conducting, and tracking-resistant. And its special advantage: because the Faraday cage effect does not apply, the antenna can be placed inside, well-protected from any kind of manipulating.

The housing has a poke-safe design and a labyrinth-type ventilation so that water is kept out. The UV resistant high-gloss coating with anti-graffiti protection can be designed according to customer demands. The finish does not only answer technical requirements but offers attractive styling options, too.

Small components – great performance.

The centerpiece of **compleo™** is a micro-controller unit. It manages the controlling of outlet motors, the sensor systems, and

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EBG – business know-how and innovative power

With more than sixty years of experience with outdoor energy distribution, EBG is predestined to develop similar appliances. We believe that there has never been a challenge in this field that we weren't able to meet with a successful solution.

Over time, the company (which was founded in 1948) became an expert in energy equipment components. We are closely acquainted with official power connection requirements: we supply energy suppliers, plants, and communities with standard or customized feeder pillars, cable distribution cabinets, fairground cabinets, and underground power distribution systems.

EBG experts know exactly what is important concerning outdoor applications. Safety and first-class manufacturing are our priority. At the same time we always remain creative and innovative.

With **compleo™**, we prove our ability to focus our competency on the future. Our strengths are experience, flexibility and quality which make us an ideal partner for new ideas concerning future energy delivery systems.