



Inductive and resistive components for electrically propelled vehicles

The Future of transport with REO

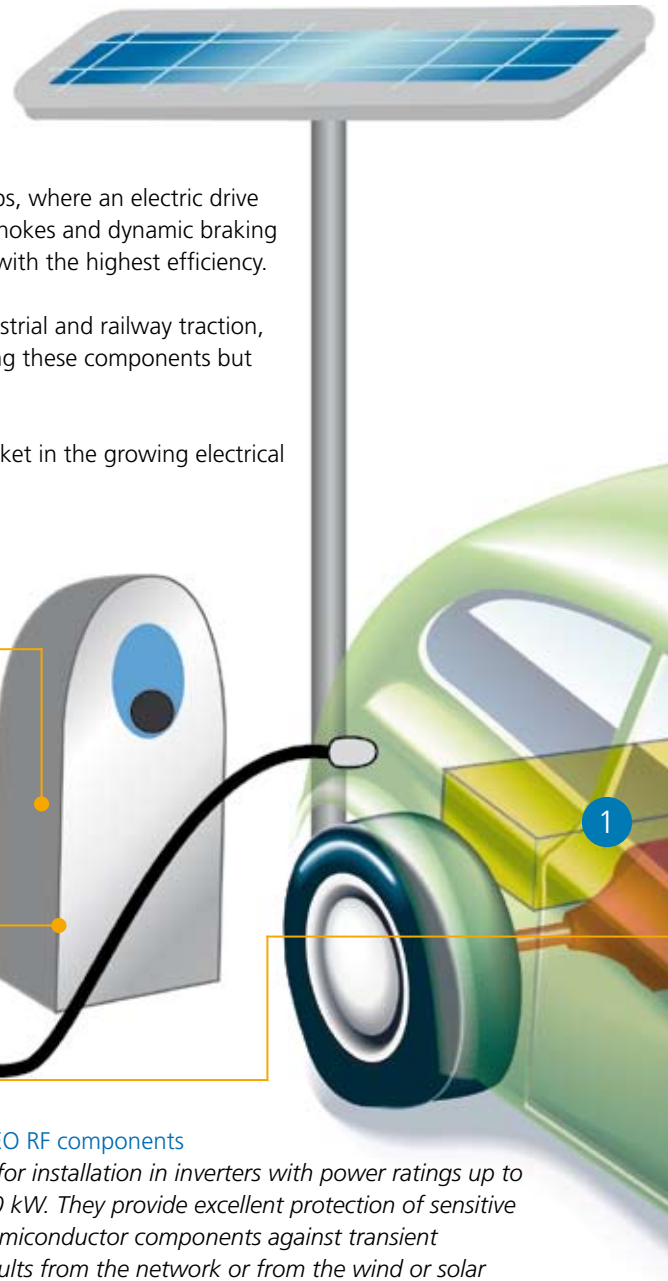
Components for electrical and hybrid powered vehicles

Whether its traditional combustion engines or modern electric vehicles (EV) its the result of precision components assembled in the correct way which ensures the quality and efficiency of the completed system.

A combustion engine requires components, like fuel filters and pumps, where an electric drive system requires, inductive and resistive components, like RFI filters, chokes and dynamic braking resistors to ensure drive energy is stored, delivered and regenerated with the highest efficiency.

REO is used to dealing with these types of components, both in industrial and railway traction, applications and can apply its wide experience to designing and rating these components but also to cooling and packaging them.

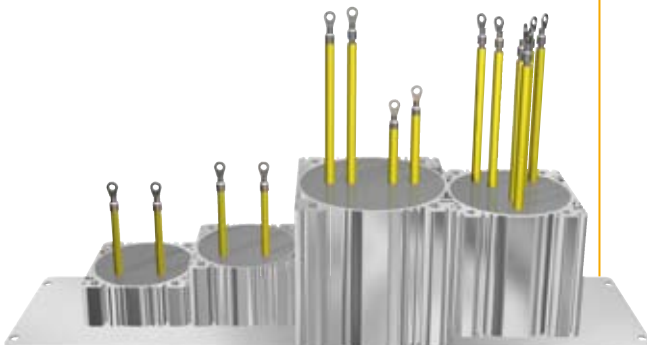
It is this knowledge which makes REO a flexible and competitive market in the growing electrical vehicle industry.



REO EMC-Filter
 – with high attenuation (up to 100 dB attenuation) in practical housings for installation flexibility and to ensure low heat dissipation.



REO Single-phase Transformers
 - efficient components, able to be vacuum impregnated to protect windings against external influences such as vibration or dust.



REO RF components
 – for installation in inverters with power ratings up to 10 kW. They provide excellent protection of sensitive semiconductor components against transient faults from the network or from the wind or solar generator.

REO PFC-Choke (CHI 412)
 – to reduce the harmonic content of the consumer current

REO RF storage choke (CHI 213)
 – for the storage and delivery of magnetic energy during power factor correction

REO RF-Transformer (HPTB)
 – for high performance switching power supplies in half or full wave switching topologies and resonant designs.

REO Common mode choke (CHI 131)
 – used to build a high performance impulse filter, which eliminates noise in the inverter which occurs due to high frequency switching



REO Amplitude Sensor
 - measure vibration and provides proportional feedback which can be directly connected to a measuring instrument or supervisory system, ie. PLC



REO High-current filter
 - provides a high level of attenuation and can be used to suppress interference from frequency-inverters with higher power ratings.



REO RF-Transformers
 - for battery chargers in electric automobile vehicles, with primary regulation based on the swinging-choke principle.

REO Current-transformer
 - with railway environment construction for measurement of AC/DC up to a frequency of 150kHz, characterized by fast response times and excellent linearity.



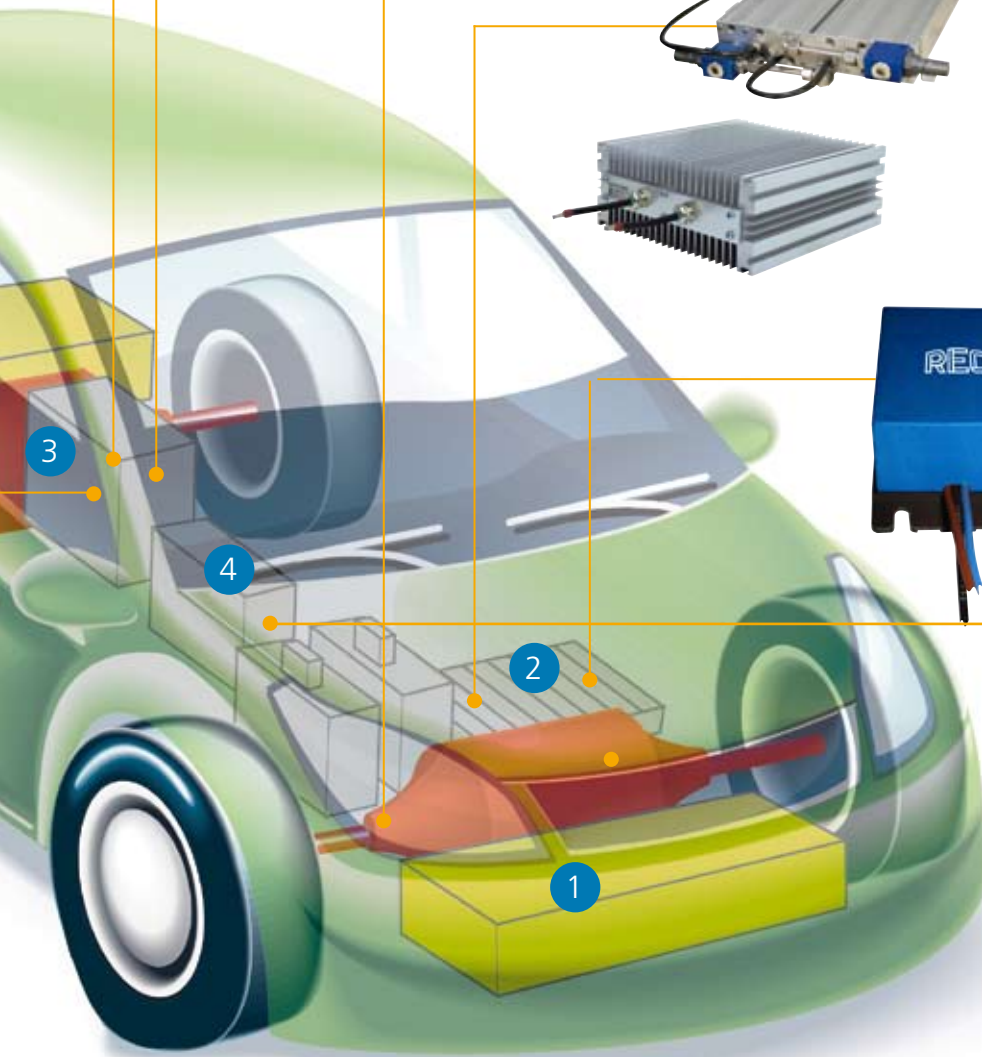
REO Braking resistor (up to 390 kW)
 - water cooled construction, ensures effective heat dissipation and frequent cycling times. Unique cooling system, ensures electrical isolation, but allows compact construction for high dynamic braking.



REO brake chopper
 - for the transformation of braking energy by fast speed changes without application of additional electronics



REO Smoothing choke
 - with their special winding and core design they are optimised for the use in DC-DC-converters of electric cars



- 1 Batteries
- 2 Electric motors
- 3 Inverter
- 4 DC/DC-converter



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