

# xEV & Critical Power Applications

Our custom and standard planar transformers and inductors serve a wide array of power ranges and operating frequencies ideally suited for electric vehicle fast charging and battery management systems. Planar technology offers improved power density and performance compared to equivalent wire wound transformer designs.

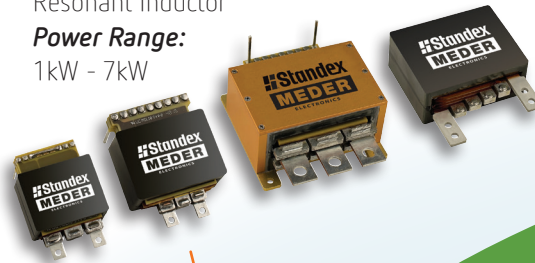
## Advantages of Planar Technology

- Low package profile relative to wire-wound equivalent
- Low leakage inductance, extremely efficient high-frequency operation, 98-99% to 40 kHz – 500kHz
- Minimum skin effect/flat windings + reduced proximity effect (Low AC losses)
- Excellent repeatability thanks to pre-tooled components
- Easy termination of multiple windings
- Standard outlines compatible with application-specific custom designs
- The compact, flat design lends themselves to effective cooling and thermal management
- Volumetric efficiency (small size)
- Low turns count improves Cu loss
- Optimized core cross section lowers core loss

Give us a hello@standexelectronics.com

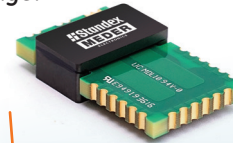
## DC/DC Converter

Main Transformer  
Output Choke  
Resonant Inductor  
**Power Range:**  
1kW - 7kW



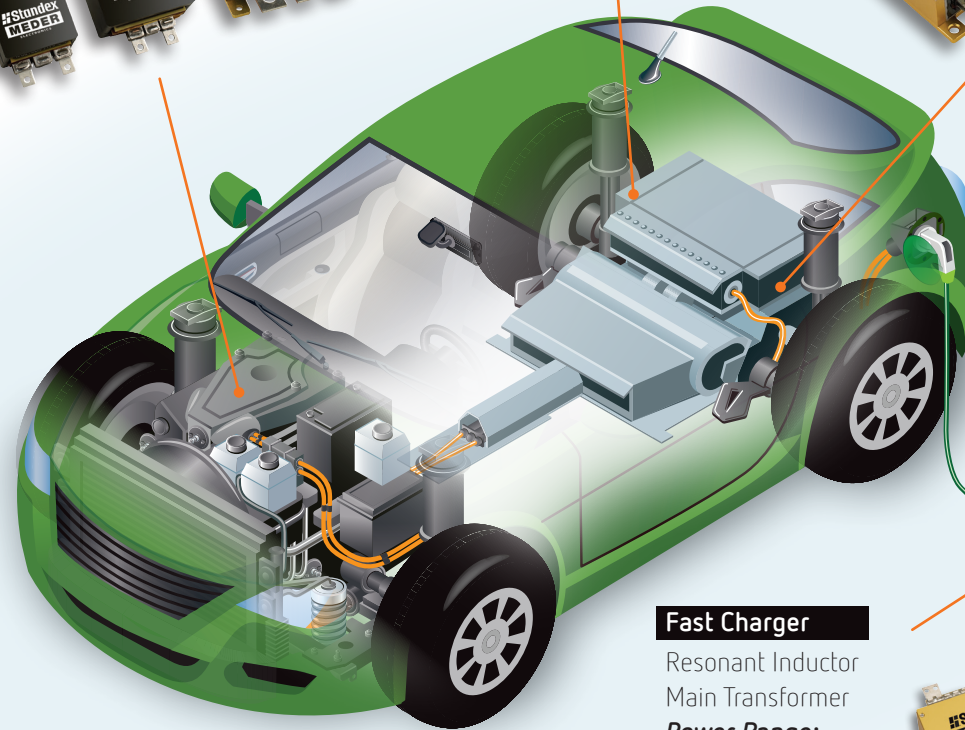
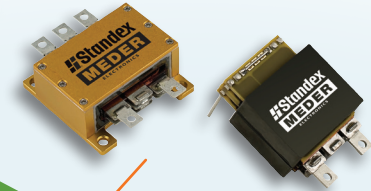
## Battery Management System

Transformer  
**Power Range:**  
25W



## Onboard Charger

Resonant Inductor  
Main Transformer  
**Power Range:**  
3.3kW - 6.6kW



## Fast Charger

Resonant Inductor  
Main Transformer  
**Power Range:**  
15kW - 100kW

