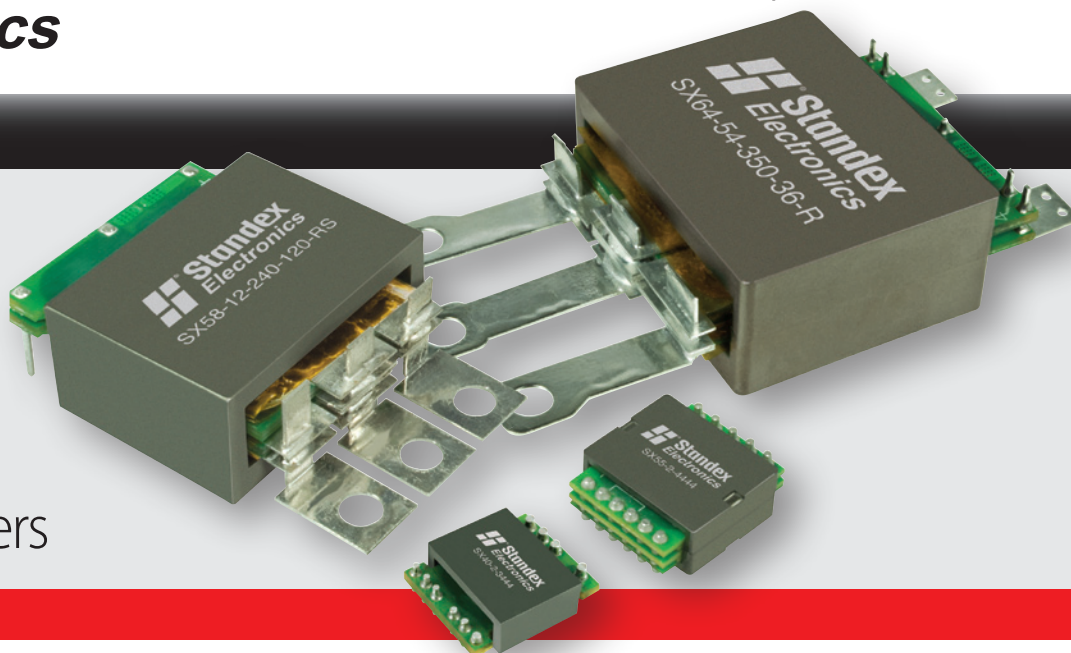


Product Solutions



Planar Transformers

New Planar transformers from Standex Electronics feature high- performance from a compact, low-profile package. These proven designs are ideal for demanding applications where space and weight savings are vital. Industries such as military/aerospace, hybrid vehicles, and alternative energy can benefit from standard or custom Standex planar designs.

What are Planar transformers?

Planar transformers feature windings that are made from copper foil lead frames, or windings which are integrated into a PCB. By covering these with ferrite cores on the top and bottom, we're able to produce a much flatter transformer that also weighs less than a traditional wire-wound version.

Why use Planar transformers?

In addition to a substantially reduced profile and light-weight design, Planar transformers provide superior performance and enable certain form factors/topologies.

- Optimized core cross section lowers core loss
- Large core surface promotes heat transfer
- PCB construction yields lowest Cu loss
- AC resistance and proximity Cu loss are minimized
- Low turns count improves Cu loss
- Optimum core window height
- Fits within core window height
- Repeatable leakage inductance, capacitance
- Volumetric efficiency (small size)
- Low leakage inductance

Standex Planar transformers for many applications:

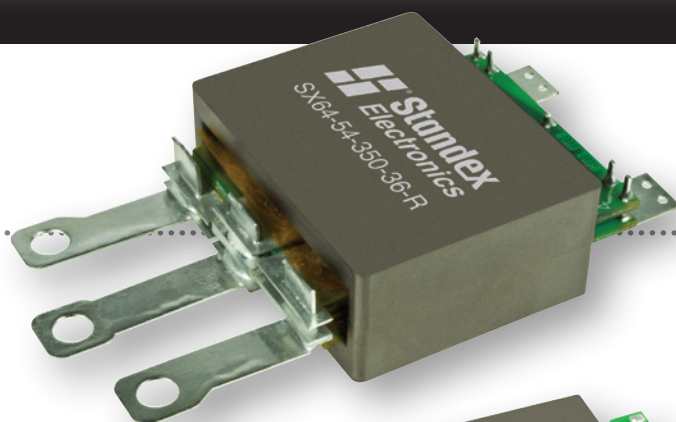
- Distributed power loss
- Battery charging/operation – 12V, 24V, 48V, 1-10 KW
- Isolated inverters to 50 KW
- Hybrid vehicles
- Renewable energy such as Wind & Solar
- AC-DC resonant designs
- Medical applications
- Military/aerospace power supplies
- Inductance welding equipment
- LED lighting
- DC power supplies
- Telecom applications
- Server – data centers
- Isolated bus converters
- Electric vehicles – auto, e-bike & scooter
- Traction drives
- And more!

Product Solutions

Standex Electronics has developed a full line of standard Planar transformers to meet a wide variety of applications. We can also customize these to suit your particular application parameters.

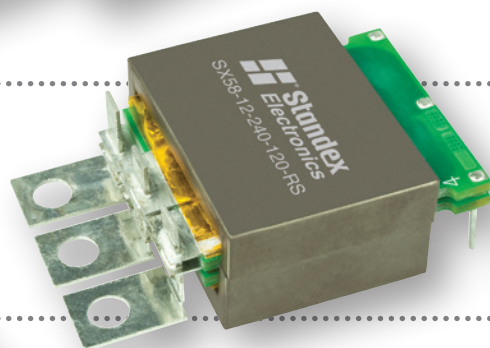
SX-64 Series for 1KW to 10KW applications

- Frequency range 50 KHz to 100 KHz optimum
- Cooling required baseplate conduction & airflow 200 LFM
- High voltage isolation & 8 mm creepage capability



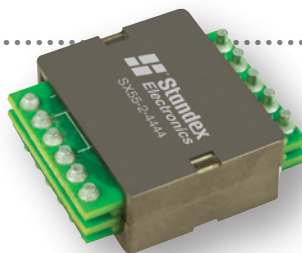
SX-58 Series for 1KW to 5KW applications

- Frequency range 50 KHz to 100 KHz optimum
- Cooling required baseplate conduction & airflow 200 LFM
- High voltage isolation & 8 mm creepage capability



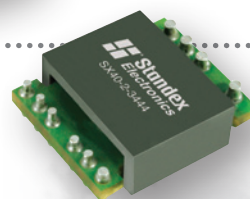
SX-55 Series with power ratings to 350W/700W

- Height 7.4 mm to 10.2 mm
- Footprint 30 mm x 26 mm max
- Frequency range 100 KHz to 800 KHz typical



SX-40 Series with power ratings to 180W/360W

- Height 7.4 mm to 9.8 mm
- Footprint 23.4mm x 20.1mm max
- Frequency range 100 KHz to 800 KHz typical



Standard models shown, custom models available upon request



**Call Standex for all of your
Planar transformer needs!**