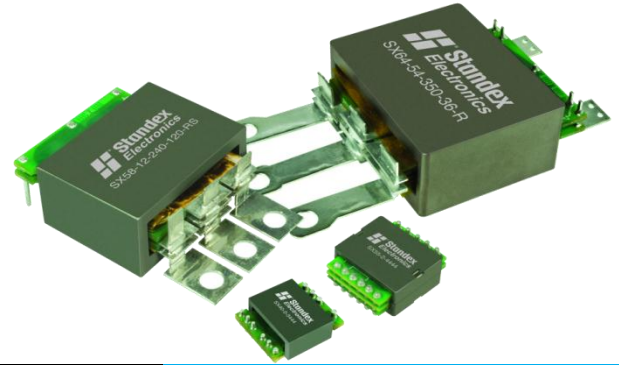


Planar Transformers



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New Planar transformers from Standex-Meder 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-Meder planar designs.

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

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.

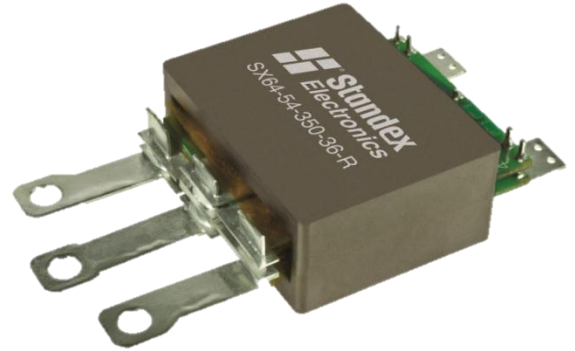
Standex-Meder Planar transformers for many applications:

- 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

Standex-Meder 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.

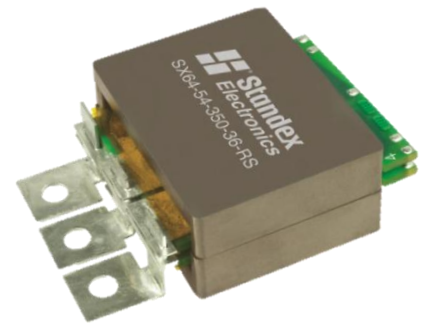
SX-64 Series for 1KW to 10KW applications

- 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
- 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

