



“Application Engineering Experts”

CUSTOM IS STANDARD

Total output power (12VDC@50A)	600W	Pri-sec turns ratio	20:1+1
Operating frequency	200 kHz	Dielectric strength	
Input voltage range	370-410 VDC	Pri-sec/pri-core	4,000 VDC
Topology	Full Bridge ZVS	Isolation sec-core	500 VDC
Max volt-μsec product	1216	Ambient temperature	60 °C
Duty cycle	66 %	Total losses	6.0 W
Primary current	2.9 Arms	Hot spot temperature	108 °C
Secondary current	35.4 Arms	Approx. Weight	100 grams

Notes: Assumes transformer is cooled by airflow only @ 200°C LFM

:: DESIGN EXAMPLE ::

SIZE P135

Power Range 300W-1.2kW

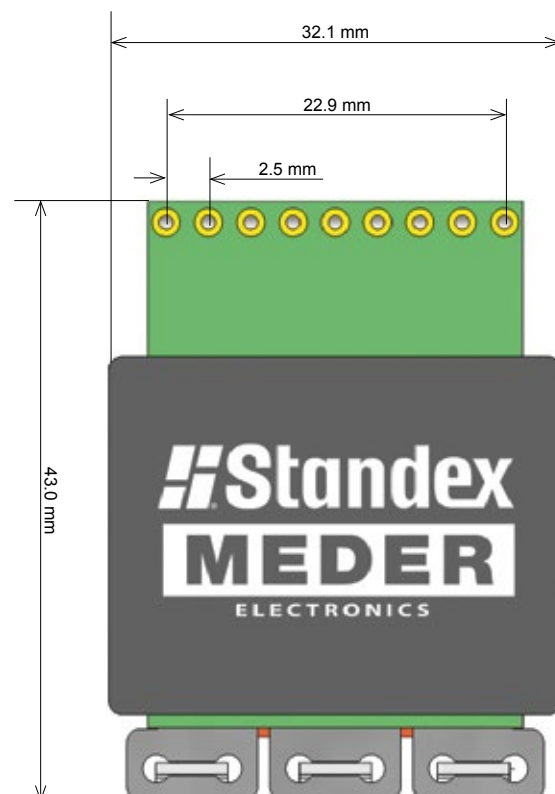
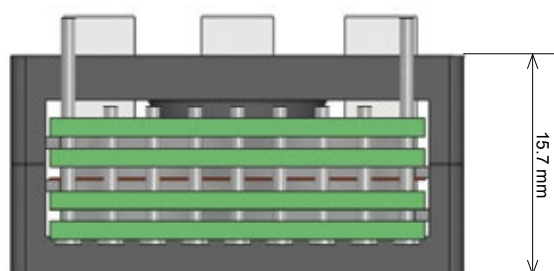
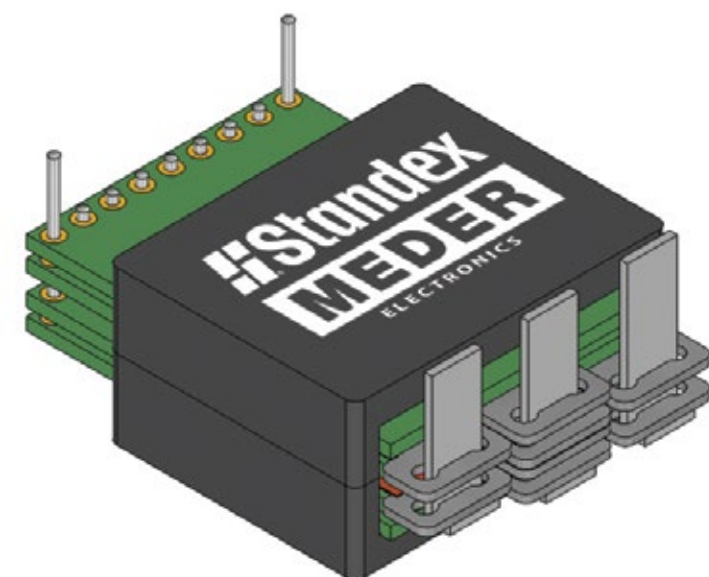
Highlights

- High efficiency (low losses), ultra compact, low-profile
- Excellent solderability (Pb-free or Pb/Sn Solder)
- Standard sizes / customer configurations
- Quick custom turn-around often without start-up or tooling costs
- Inductors available for design in all packages
- Large secondary pins reduce temperature rise on terminals

Customize beyond these examples!

Rated power 300W-1.2kW / Frequency range 100-250kHz
 Topology - Full Bridge, Half Bridge, Full Bridge ZVS, Push-Pull
 Current rating max. SMD=20A, TH = +30%
 Isolation voltage pri-sec/pri-core 500-5,000VDC
 Soft switching, single or multiple outputs
 Different switching frequencies, input/output voltages
 Primary turns - other number (no fractions)
 Secondary Ns1, Ns2 / Ns3 turns 1- 8 (no fractions)
 Thermal solutions heat sinks, etc.

THROUGH HOLE / J-HOOK MOUNT



These models are for reference only and may NOT exactly match the design examples provided.



Custom
Engineered
Solutions for
Tomorrow

“Application Engineering Experts”

CUSTOM IS STANDARD

Total output power (12VDC@100A)	1.2kW	Pri-sec turns ratio	24:1+1
Operating frequency	120 kHz	Dielectric strength	
Input voltage range	380-410 VDC	Pri-sec/pri-core	4,000 VDC
Topology	Full Bridge	Isolation sec-core	500 VDC
Max volt-μsec product	2564	Ambient temperature	600 °C
Duty cycle	82 %	Total losses	11 W
Primary current	4.1 Arms	Hot spot temperature	98 °C
Secondary current	70.7 Arms	Approx. Weight	130 grams

Notes: Assumes transformer is cooled by a coldplate @ 75°C max.

:: DESIGN EXAMPLE ::

SIZE P135

Power Range 300W-1.2kW

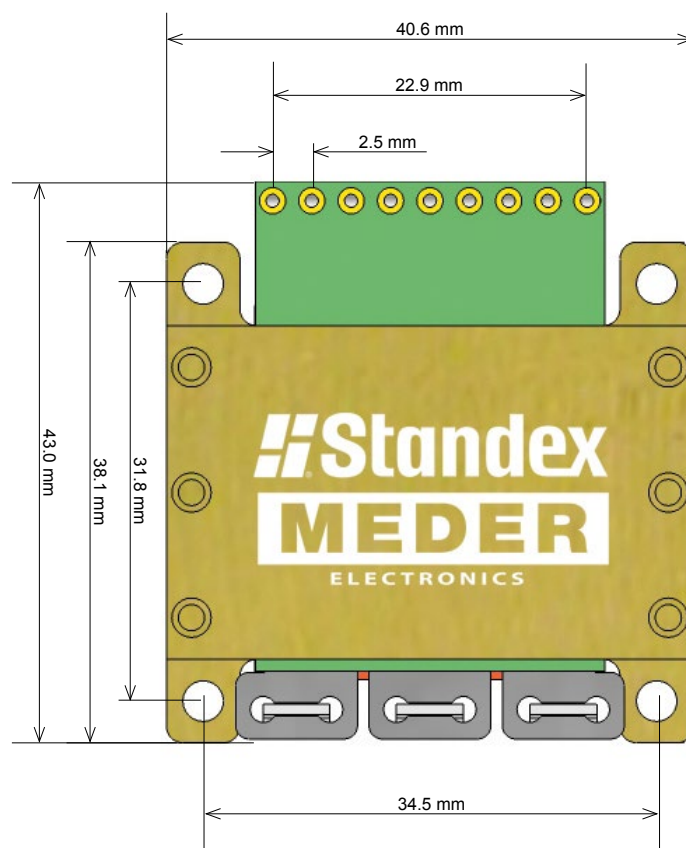
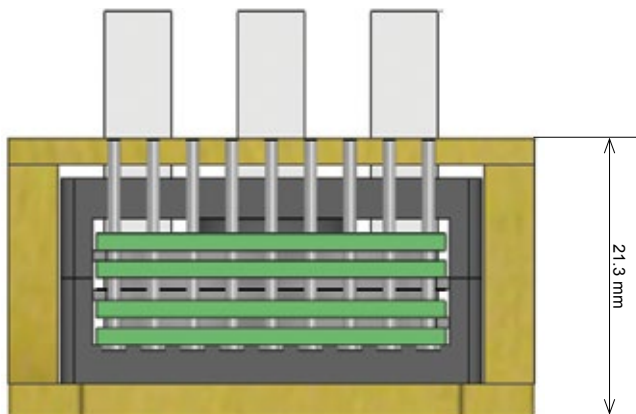
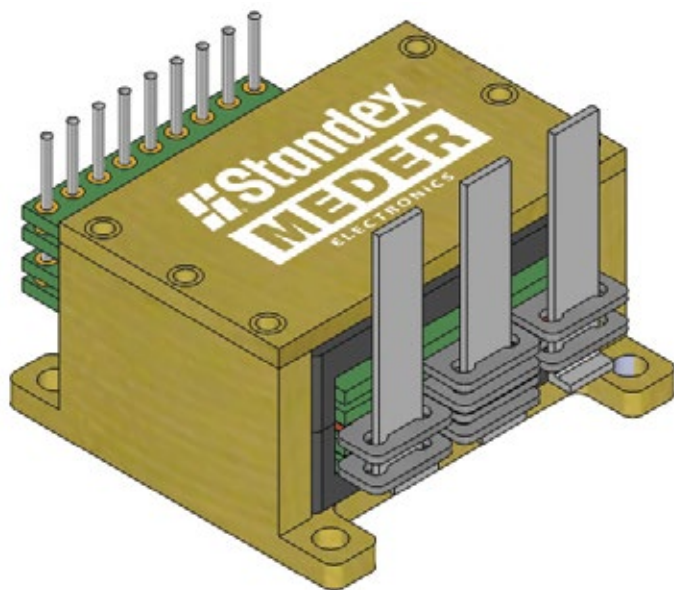
Highlights

- Anodized aluminum heatsinks offering high thermal conductivity and removing heat from windings
- High efficiency (low losses), ultra compact, low-profile
- Excellent solderability (Pb-free or Pb/Sn Solder)
- Standard sizes / customer configurations
- Quick custom turn-around often without start-up or tooling costs
- Inductors available for design in all packages
- Large secondary pins reduce temperature rise on terminals

Customize beyond these examples!

Rated power 300W-1.2kW / Frequency range 100-250kHz
Topology - Full Bridge, Half Bridge, Full Bridge ZVS, Push-Pull
Current rating max. SMD=20A, TH = +30%
Isolation voltage pri-sec/pri-core 500-5,000VDC
Soft switching, single or multiple outputs
Different switching frequencies, input/output voltages
Primary turns - other number (no fractions)
Secondary Ns1, Ns2 / Ns3 turns 1- 8 (no fractions)
Thermal solutions heat sinks, etc.

THROUGH HOLE / J-HOOK MOUNT



These models are for reference only and may NOT exactly match the design examples provided.

Fill out a design request today! | meder.com/planartransformers.html