Standex MEDER ELECTRONICS — Custom Engineered Solutions for Tomorrow

SIZE P350

Power Range 2kW-6kW

"Application Engineering Experts"

CUSTOM IS STANDARD

Total output power (28VDC@130A)	3.6kW	Secondary current	92 Arms
Operating frequency	200 kHz	Pri-sec turns ratio	14:1+1
Input voltage range	500-800 VDC	Dielectric strength	
Topology	Full Bridge LLC Resonant	Pri-sec/pri-core	3,000 VDC
		Isolation sec-core	1,000 VDC
Max volt-µsec product	2017	Ambient temperature	85 °C
Duty cycle	81 %	Total losses	23.4 W
Primary current	9.3 Arms	Hot spot temperature	120 °C
		Approx. Weight	270 grams

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

:: DESIGN EXAMPLE ::

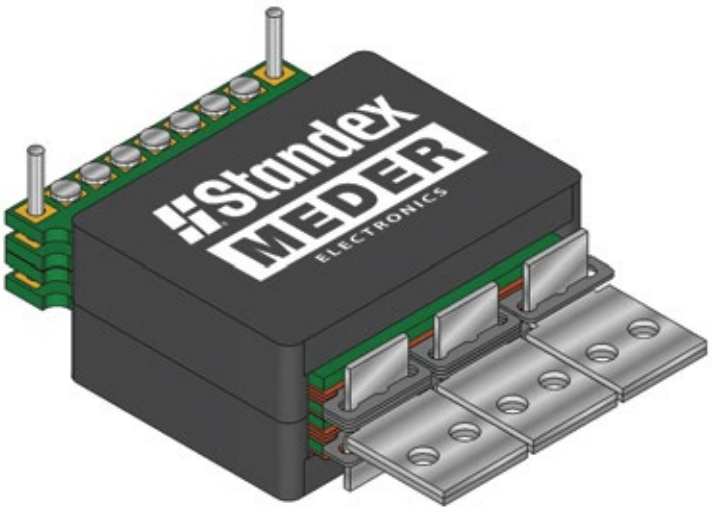
Highlights

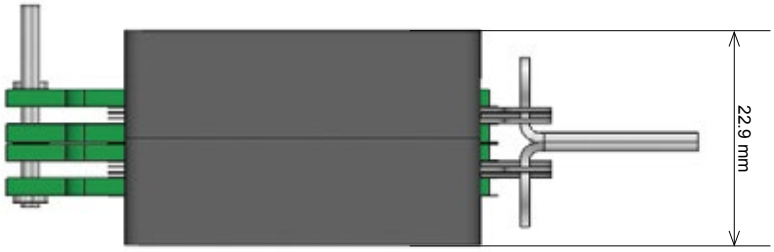
- Anodized aluminum heatsinks offering high thermal conductivity and removing heat from windings
- Patented (**U.S. Patent 7,460,002**) terminals offer mechanical strength and very low resistance
- High efficiency (low losses), ultra compact, low-profile
- Excellent solderability (Pb-free or Pb/Sn Solder)
- 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
- Various terminal options available (SMD, Thru-hole, screw terminals)

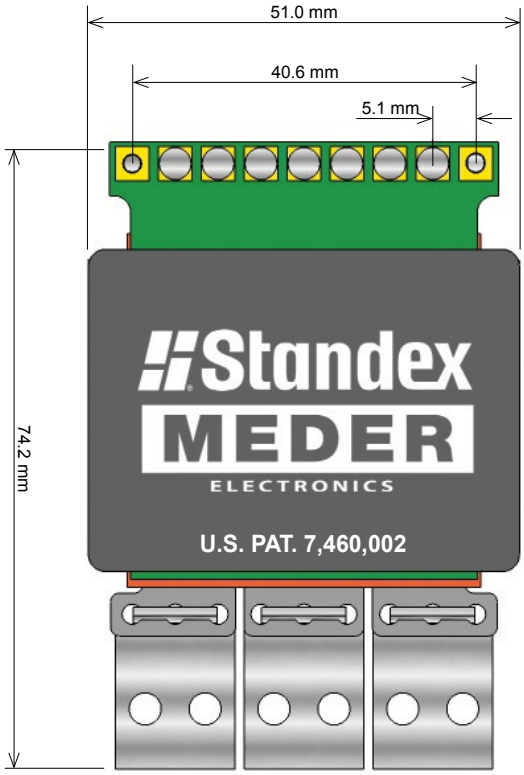
Customize beyond these examples!

Rated power 2kW-6kW / Frequency range 40-150kHZ
Topology - Full Bridge, Half Bridge, Full Bridge ZVS, Push-Pull
Current rating max. 300A
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.

BUS BAR TERMINATION







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

Standex MEDER ELECTRONICS — Custom Engineered Solutions for Tomorrow

SIZE P350

Power Range 2kW-6kW

"Application Engineering Experts"

CUSTOM IS STANDARD

Total output power (15VDC@300A)	5.0kW	Pri-sec turns ratio	10:1+1
Operating frequency	50 kHz	Dielectric strength	
Input voltage range	220-320 VDC	Pri-sec/pri-core	3,000 VDC
Topology	Full Bridge	Isolation sec-core	500 VDC
Max volt-µsec product	3085	Ambient temperature	60 °C
Duty cycle	71 %	Total losses	40.2 W
Primary current	29.7 Arms	Hot spot temperature	115°C
Secondary current	196.3 Arms	Approx. Weight	350 grams

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

:: DESIGN EXAMPLE ::

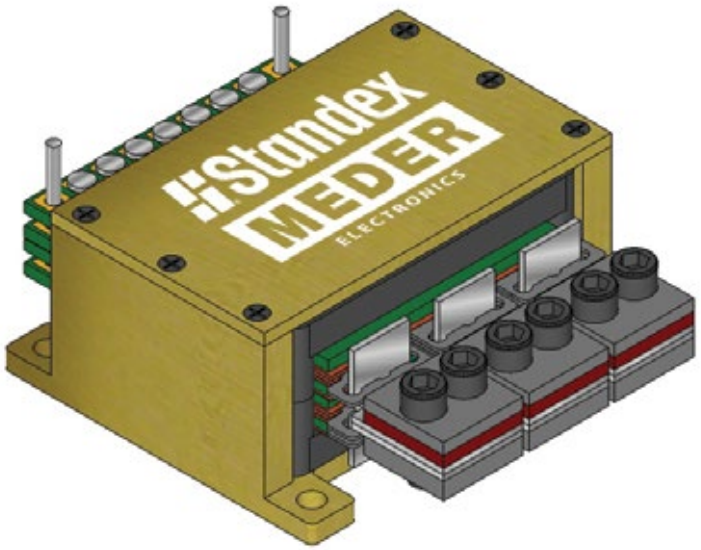
Highlights

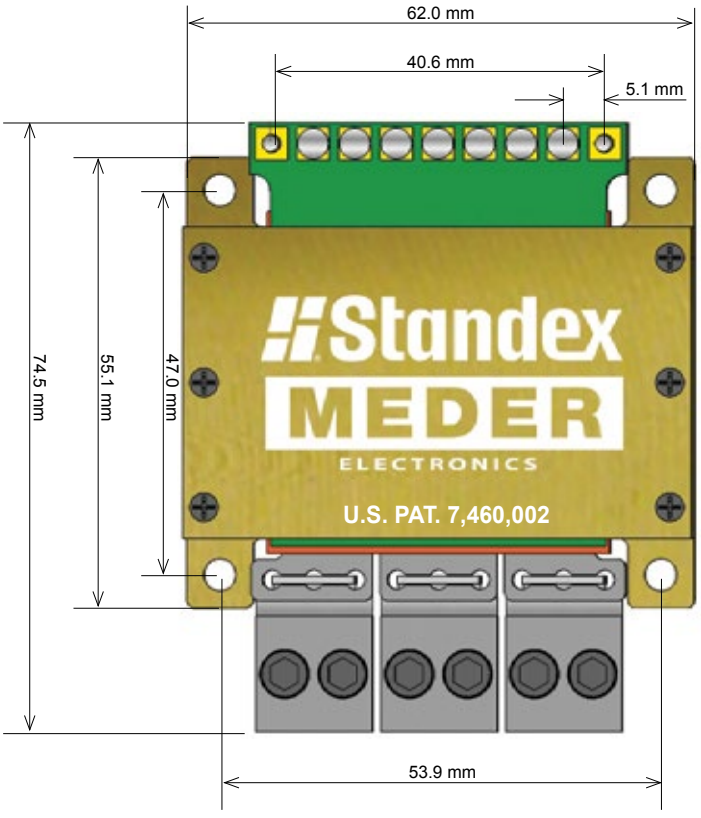
- Anodized aluminum heatsinks offering high thermal conductivity and removing heat from windings
- Patented (**U.S. Patent 7,460,002**) terminals offer mechanical strength and very low resistance
- High efficiency (low losses), ultra compact, low-profile
- Excellent solderability (Pb-free or Pb/Sn Solder)
- 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
- Various terminal options available (SMD, Thru-hole, screw terminals)

Customize beyond these examples!

Rated power 2kW-6kW / Frequency range 40-150kHZ
Topology - Full Bridge, Half Bridge, Full Bridge ZVS, Push-Pull
Current rating max. 300A
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.

BUS BAR TERMINATION





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