

**SIZE P1100**

**Power Range 10kW-30kW**



“Application Engineering Experts”

**CUSTOM IS STANDARD**

Total output power (400VDC@50A)	20.0kW	Pri-sec turns ratio	8:8+8
Operating frequency	40 kHz	Dielectric strength	
Input voltage range	246-286 VDC	Pri-sec/pri-core	4,000 VDC
Topology	Full-Bridge	Isolation sec-core	1,000 VDC
Max volt-µsec product	3884	Ambient temperature	60 °C
Duty cycle	84 %	Total losses	120 W
Secondary current	50 Arms	Hot spot temperature	110 °C
		Approx. Weight	3 lbs

Notes: Assumes transformer is cooled by a coldplate @ 60°C max. and forced airflow

**:: DESIGN EXAMPLE ::**

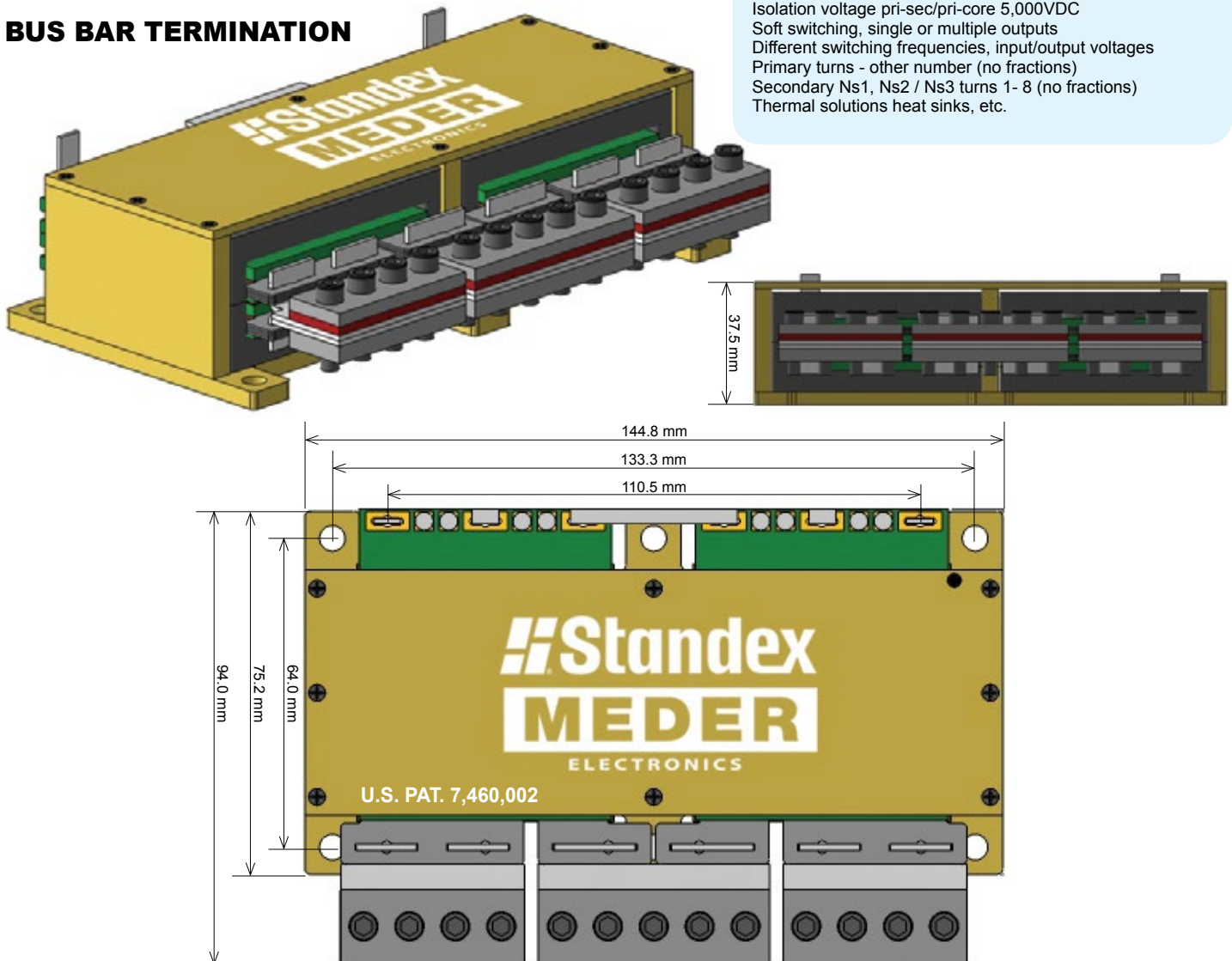
**Highlights**

- 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 10kW-30kW / Frequency range 20-125kHz  
 Topology - Full Bridge, Half Bridge, Full Bridge ZVS, Push-Pull  
 Current rating max. 600A  
 Isolation voltage pri-sec/pri-core 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.