Offering:

- Integration of the capacitor and bus
- Shared cooling for highest performance (capacitor, bus structure and IGBT)
- Direct cooling of the bus structure
- Lowest possible ESL (Equivalent Series Inductance) presented at the IGBT inputs - less than 20 nH
- DC and IGBT terminal configuration optimizing capacitor effectiveness
  - Isolating the battery from ripple current
  - Getting uniform current distribution in the capacitor
- Smaller volume and lower weight (higher power density)
- Reduced cost without sacrificing reliability
- Market ready for transportation, alternative energy, distribution
- Scalable to higher power levels
- Fast turn-around time

Ratings: Designed for 400V 80kW inverter

Components:

- SBE low inductance film capacitors integrated with the bus structure
  - Total capacitance: 500 µF at 600 V or 750 µF at 400 V
  - Up to 200 A ripple current rating with appropriate thermal conditions
  - < 10 nH ESL
  - 250 Micro-Ohm ESR
- Low inductance laminated bus
  - UL Certified
  - Low inductance
  - High temperature laminated insulation
  - Aluminum for reduced weight
- Danfoss ShowerPower® cooling
  - Light weight, plastic package
  - Low cost
  - Highly efficient, Rth J-water ~0.6 kW for a power semiconductor of 1 cm²
  - Low flow rate, 2-4 l/min
  - Low pressure drop, 20-50 mbar
- Danfoss transfer molded IGBT module, 600A, 650V
  - Highest power density
  - Automotive reliability, 200°C, shock and vibration
  - Low module stray inductance, approx. 20 nH
  - Scalable