

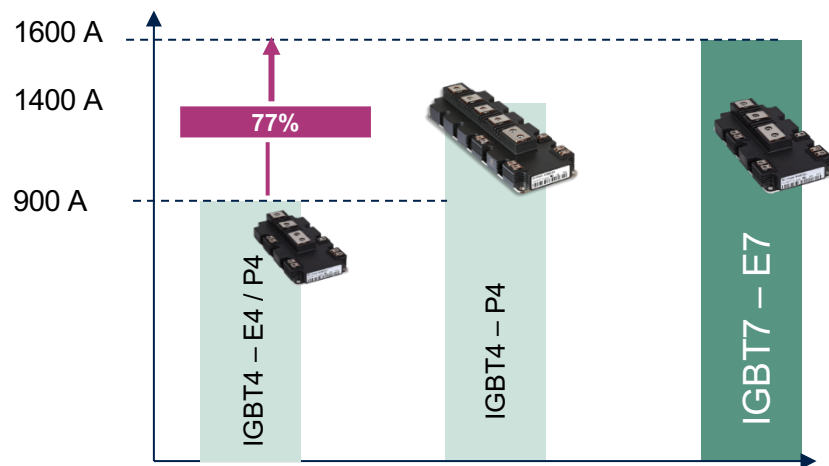
PrimePACK™ FF1600R12IP7



인피니언 전력반도체 솔루션
가상부스에 오신 걸 환영합니다!

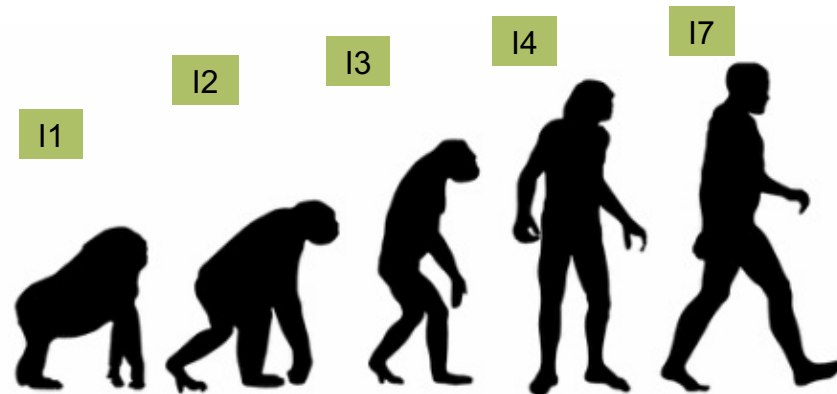


Current density increase

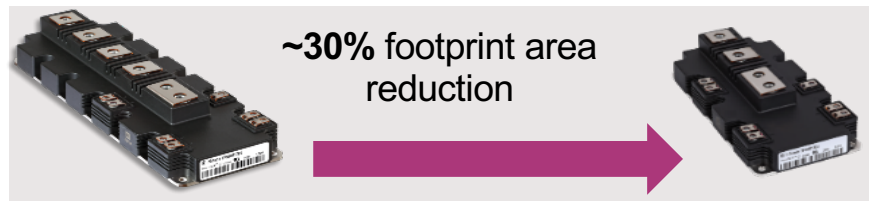


Drastically lower conduction losses up to 700 mV

Evolution of IGBT technology



Package miniaturization



PrimePACK™ 2 with TRENCHSTOP™ IGBT7 FF1600R12IP7



Key features

- › 1600 A 1200 V PrimePACK™ 2
- › Latest TRENCHSTOP™ IGBT7 chip technology
- › Drastically lower conduction losses up to 700 mV

Benefits

- › +30% higher inverter output current for the same frame size
- › Avoidance of paralleling of IGBT modules
- › Simplification of the inverter systems

Target applications

Drives



Energy
storage



CAV

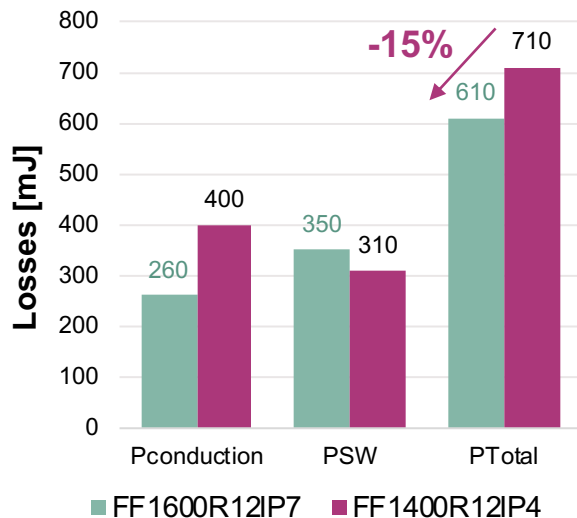


1200 V PrimePACK™ with IGBT7

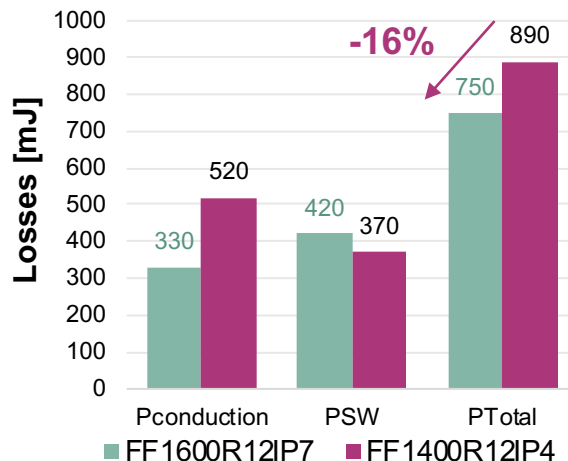


Lower losses, high efficiency

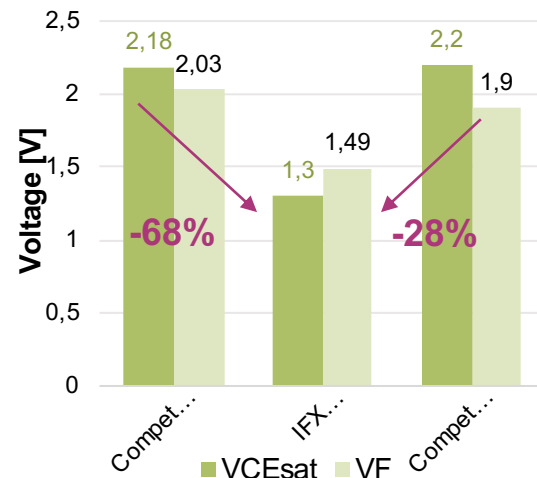
Normal duty operation



Heavy duty operation



V_{CEsat} & V_F comparison @ 1400 A



Test conditions

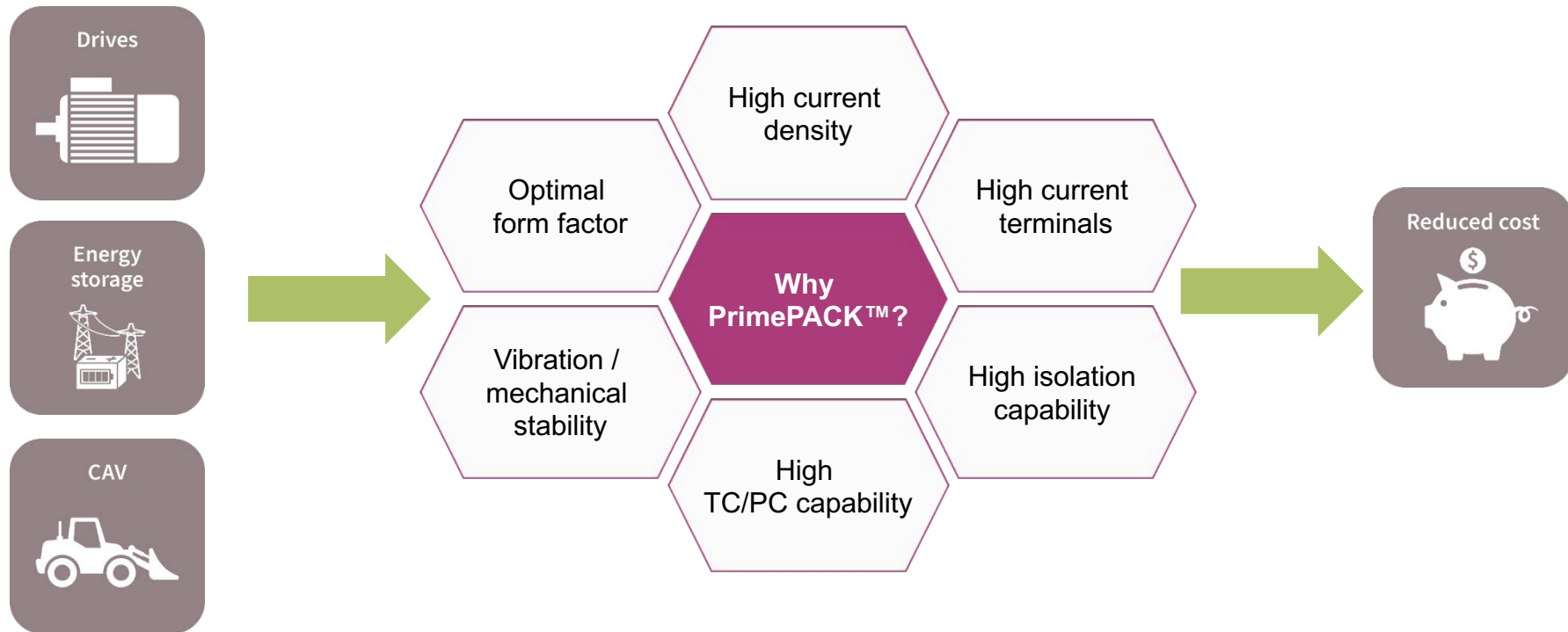
V_{DC}: 540 V F_{sw}: 2.5 kHz
I_{rms}: 700 A F_{out}: 10 Hz

T_{uaHA}: 120 sec
T_{amb}: 45°C

Cos(phi): 0.85
R_{thHA}: 0.08 K/W

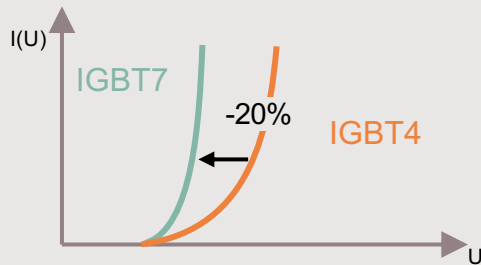
Modulation index: 0.2

More power, smaller package, system savings

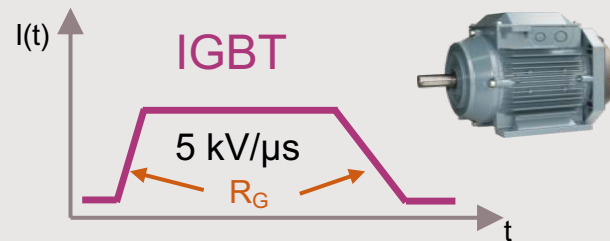


Technical benefits of TRENCHSTOP™ IGBT7

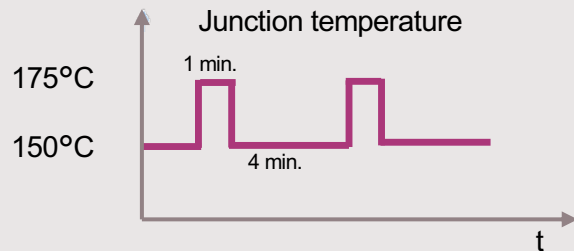
Best-in-class $V_{ce,sat}$



Enhanced controllability of dv/dt



Operation at 175°C overload



Drives



Energy storage

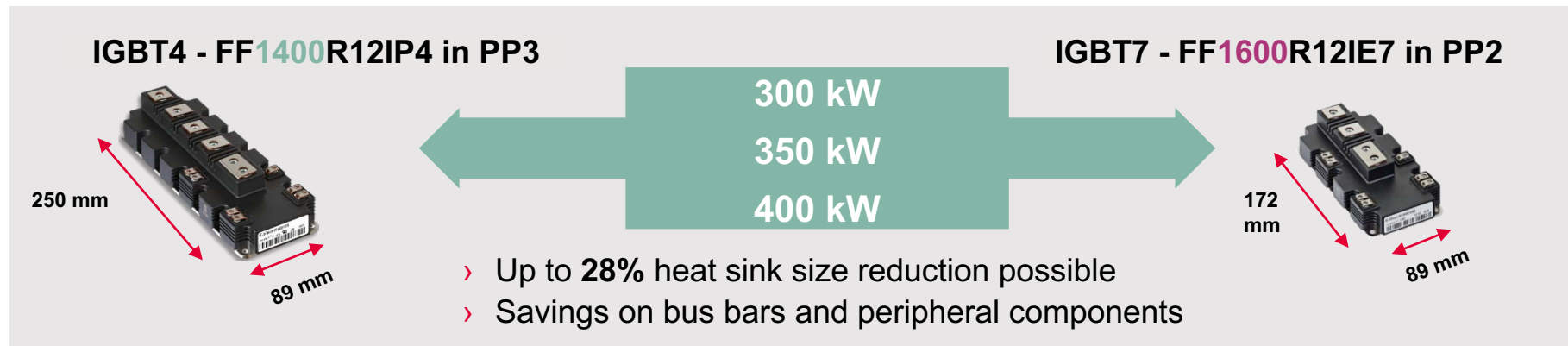
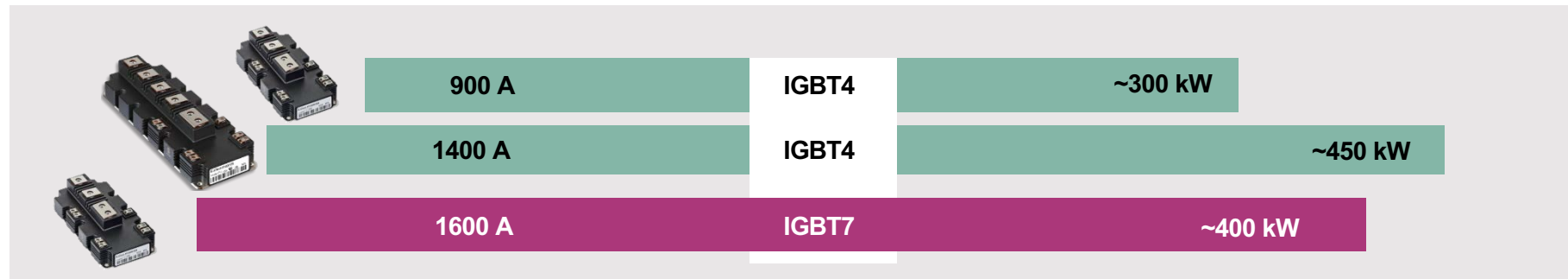


CAV



PrimePACK™ 2 with TRENCHSTOP™ IGBT7 FF1600R12IP7

More power in smaller package





Part of your life. Part of tomorrow.