

Semiconductors that Keep Your Production Line Moving

Fuji Electric offers rugged and reliable IGBT Modules that keep your welding operation running at peak levels.



IGBT Modules

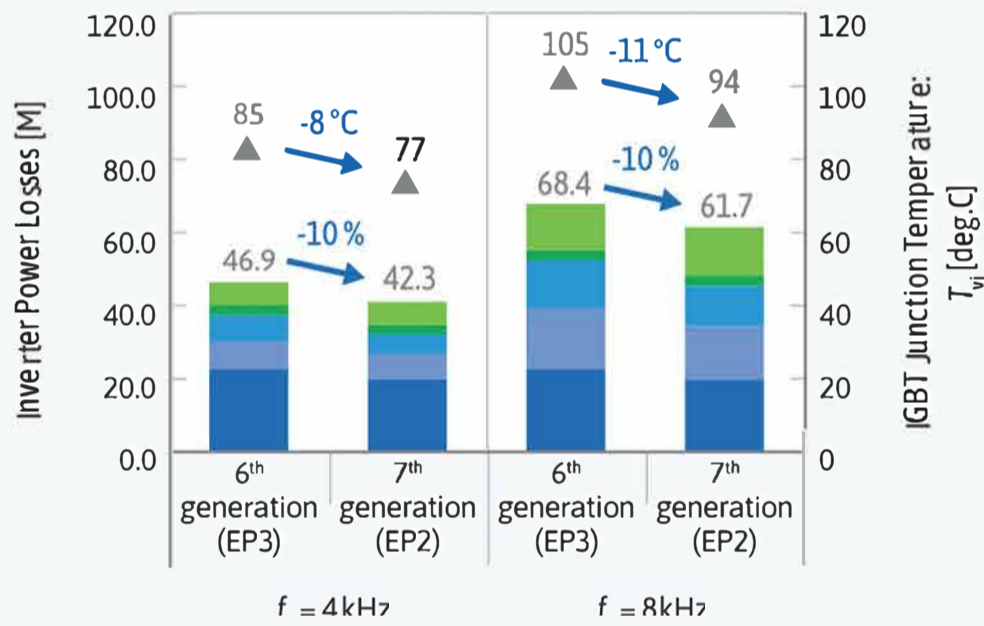


IGBT Modules

Welding is a critical activity used on many modern production lines.

So, when downtime hits, your entire line can go down. Our IGBT modules have been specifically designed to maximize uptime so you don't miss a step.

Low Loss

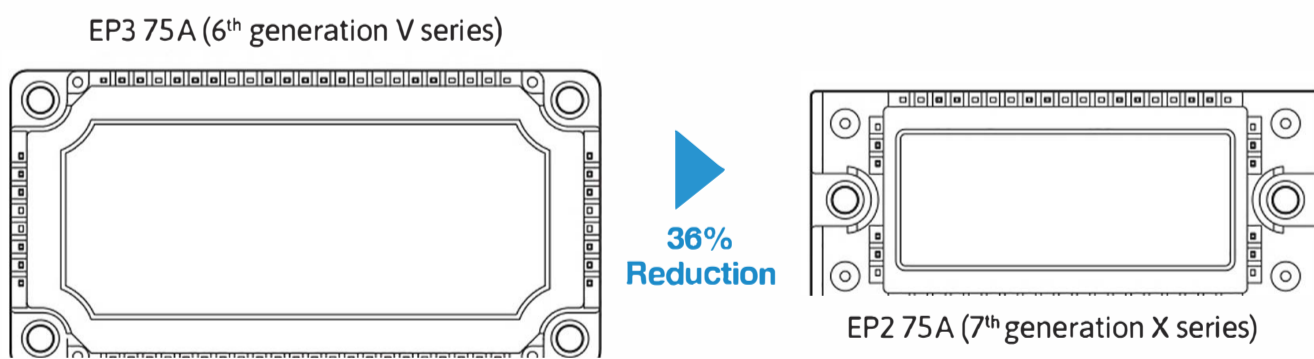


■ P_{rr} Reverse Recovery Loss	■ P_{sat} IGBT Conduction Loss
■ P_f Forward Conduction Loss	▲ T_{vj} Junction Temperature
■ P_{on} Turn-On Loss	
■ P_{off} Turn-Off Loss	

$V_{dc} = 600\text{ V}$, $I_o = 35\text{ Arms}$, $f_o = 50\text{ Hz}$
 Power Factor = +0.9
 Modulation Factor = 1.0
 Reverse Recovery $dv/dt = 10\text{ kW/us}$

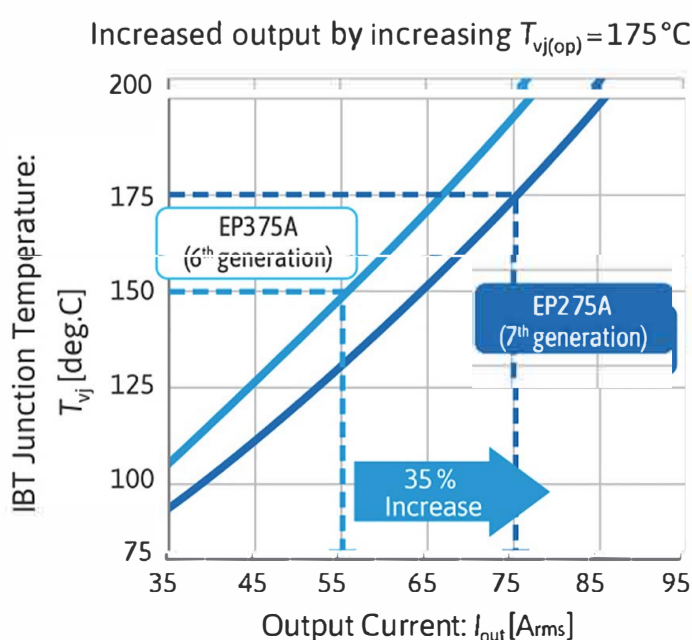
Reduce inverter loss by 10% and chip temperature by 10C compared with the 6th generation V series EP3 Package (75A at $f_c = 8\text{ kHz}$).

Miniaturization



An approximately 36% smaller footprint has been achieved by reducing power loss and improving heat transfer.

High Temperature Operation



- Up to **35% more** output than the previous generation
- A **2x improvement** in ΔT_{vj} power cycle capability