



Pre-Switch

# AI based soft switching solution for DC/AC

for all



Embedded AI

(switch



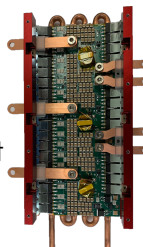
Pre-Flex Chip

World's first AI based soft switching solution DC/AC inverters for all varying conditions

**Reduction of 99% SiC switching losses** agnostic)

Cooler, lighter motor with more torque

block



weight

and

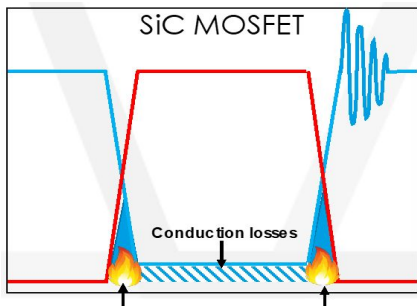
Cleanwave evaluation system

200kVA SiC based bidirectional evaluation

**Lowers** inverter **system cost**, size and

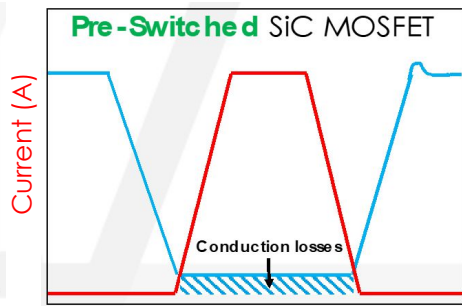
**5-12% more EV range** from increased fsw higher motor efficiency

OLD Solution



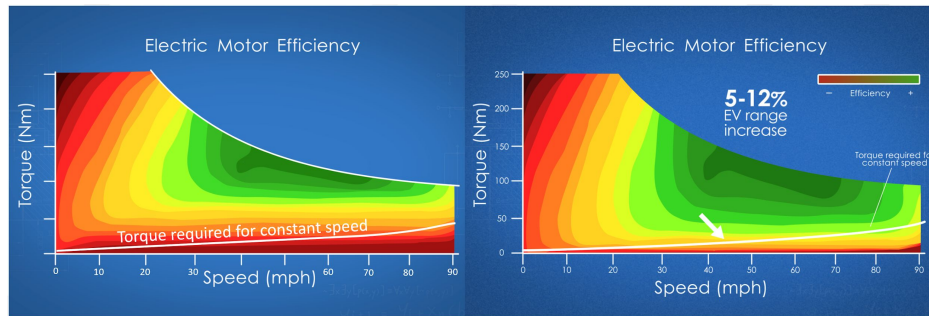
Switching Losses

NEW Solution



99% reduction of switching losses

Hard-switched, Si, fsw=5kHz



**Pre-Switch can increase efficiency, especially under lower load condition and extend EV range by 5-12%**