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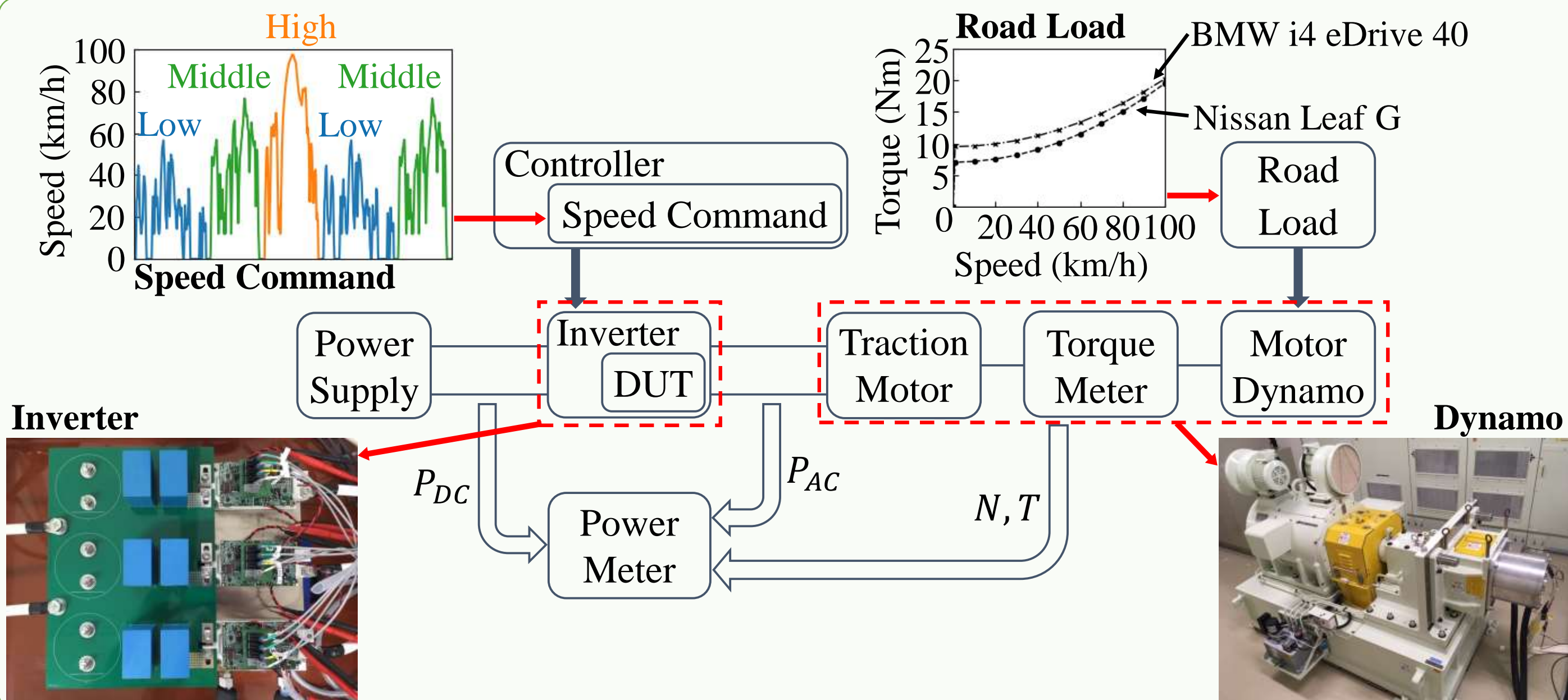
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## Overview

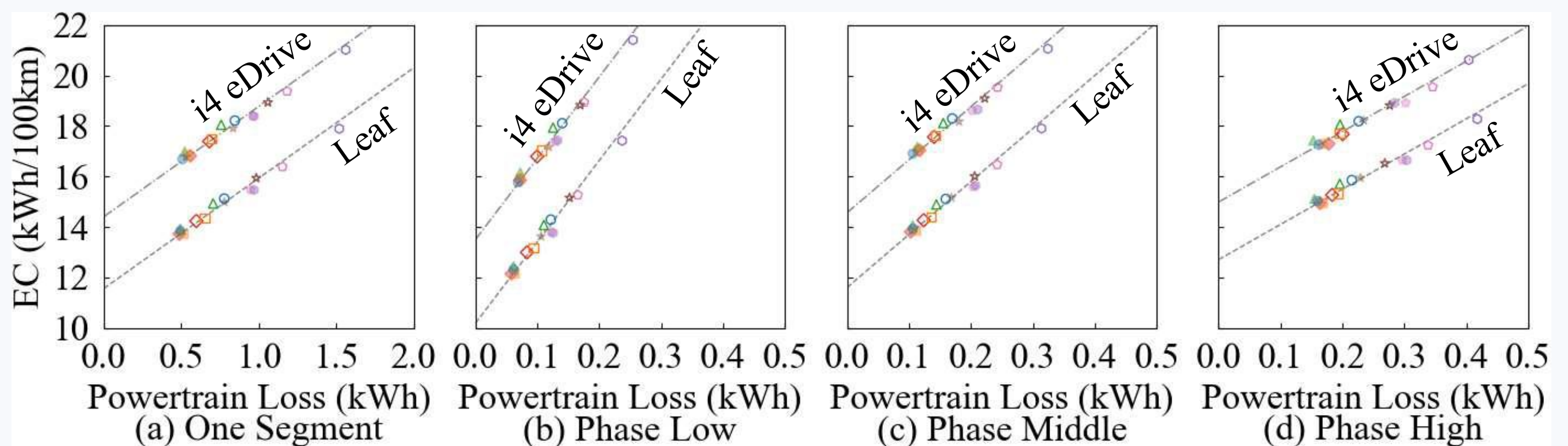
- Comparison of IGBT and several Generation SiCs
- Effect of powertrain loss on vehicle performance
- SiC – 4G driving IPMSM has the best performance
- Inverter Loss 0.115 kWh worsens 0.5 kWh/100km

Type	Mfr.	Model
IGBT	Infineon	FF450R12ME2
SiC – 2G	Rohm	BSM400D12P2G003
SiC – 3G		BSM400D12P3G003
SiC – 4G		prototype

## Experimental System



## Experimental Result



	IPMSM				IM		
	IGBT	SiC-2G	SiC-3G	SiC-4G	IGBT	SiC-2G	SiC-4G
Motor Loss	●	■	▲	◆	●	★	◆
Total Loss	○	□	△	◇	○	★	◇