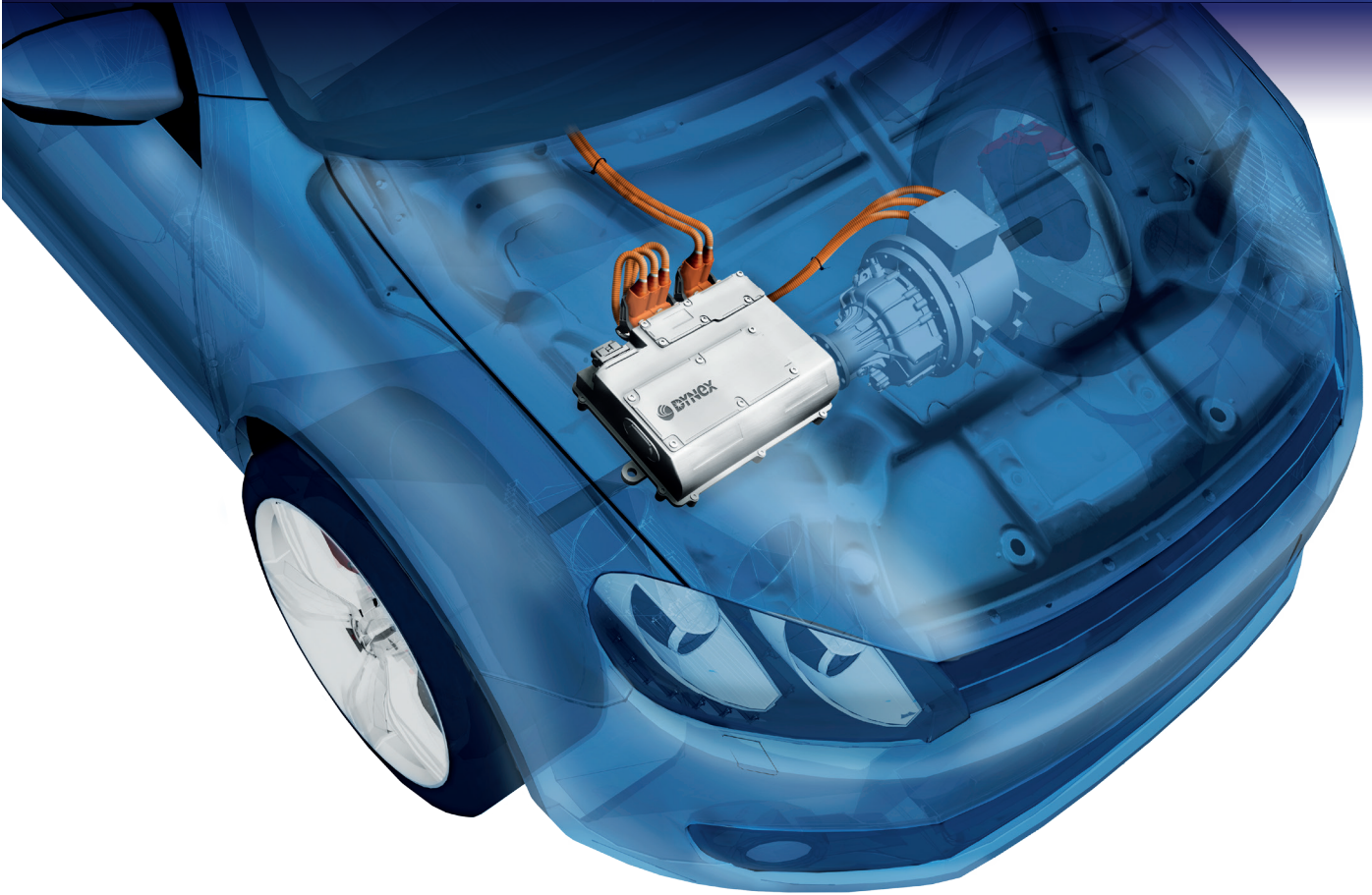


Integrated Power Unit (IPU)

Electronic Assemblies



- Specialised double-sided cooling Integrated Power Module boosts thermal performance and power density
- Integrated single coolant loop for double sided cooling of IGBT and capacitor enhances reliability
- Innovative design gives excellent electromagnetic compatibility
- Functional safety compliant design
- Customised control algorithms can be accommodated through plug and play slot or customer software
- Full custom inverter solutions for OEM applications

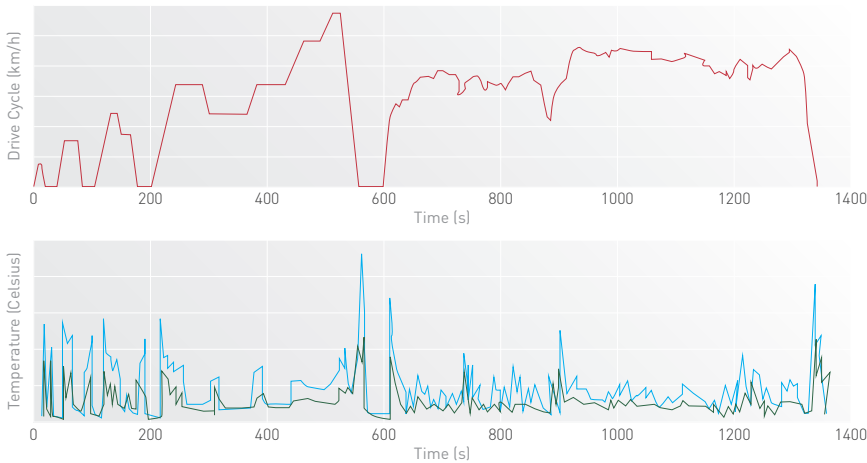


IPU60-120

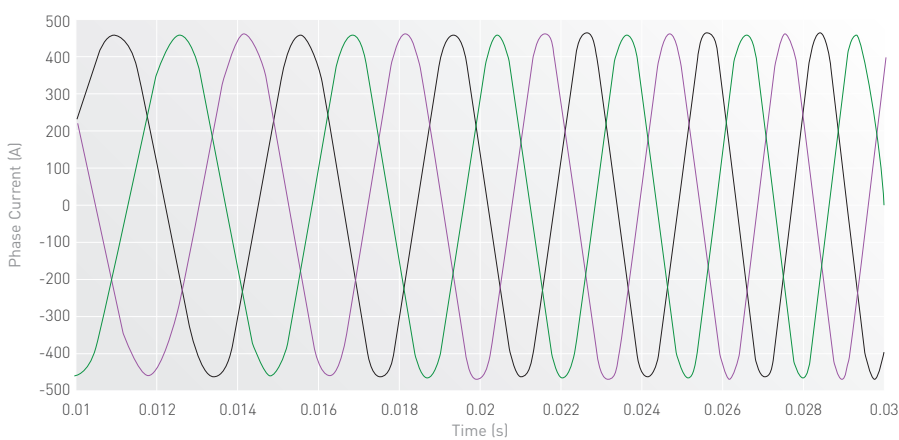
IPU Specification

Type	IPU60-120	IPU85-125
DC input voltage	DC100V-DC430V	
Rated Power	60kW	85kW
Rated output current	200Arms	288Arms
Peak Power	120kW	125kW
Peak output current	400A@30s	425A@30s
Switching frequency	5kHz-10kHz	
Cooling fluid	50% water/50% ethylene glycol, 8L/min, up to 75°C	
Operating ambient temperature	-40°C-105°C	
Design lifetime	12 years	
Dimensions and volume	274mm×191mm×95mm 5L	266mm×160mm×130mm 5.5L
Power density	24kW/L	22.7kW/L

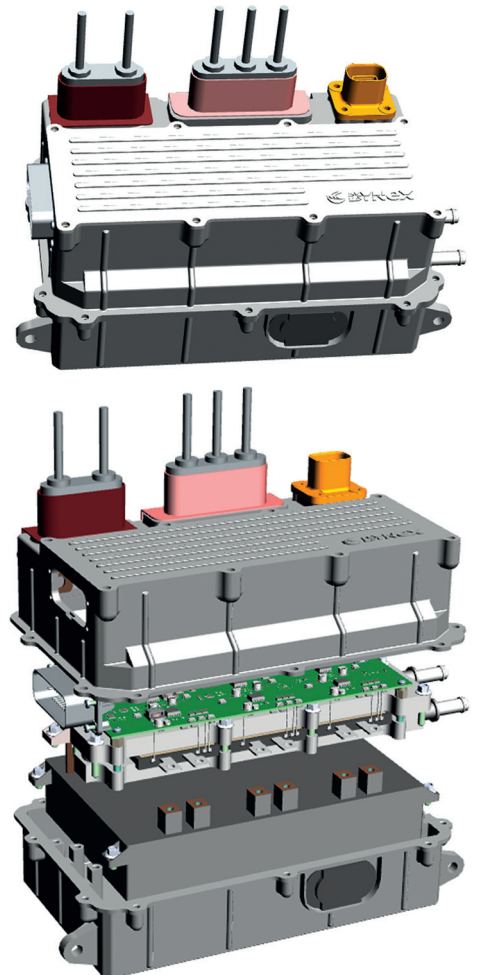
Drive cycle and corresponding junction temperature



Phase current example



IPU85-125



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