

# 7th Generation Power Modules Dual XT & Premium Dual XT

## Dual XT – More power, lower losses

### FEATURES

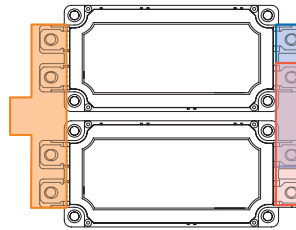
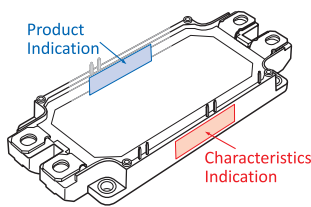
- 7G IGBT & FWD
- New internal layout
- Higher reliability
- Improved silicone gel
- Solder or Mini press-fit pins

## Premium Dual XT – High power density

### FEATURES

- 7G IGBT & FWD
- Advanced bond wire design
- High thermal conductive ceramic substrate
- Package material with CTI > 600
- $V_{iso} = 4kV$
- Improved silicone gel
- Solder or mini press-fit pins

2nd label indicates  $V_{CE(sat)}$  and  $V_F$  classes for easier paralleling



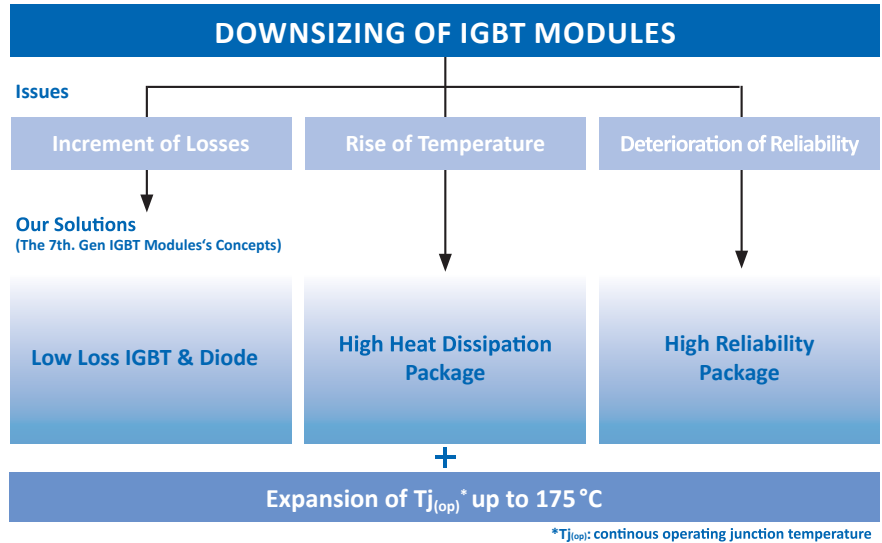
### Line-up Plan

		7G		Premium	
		1200V	1700V	1200V	1700V
	Ic				
	225 A	■	■		
	300 A	■	■		
	450 A	■	■		
	600 A	■		■	■
	800 A			■	

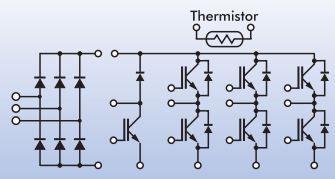
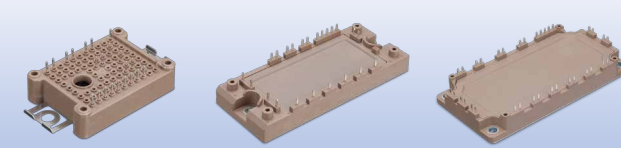
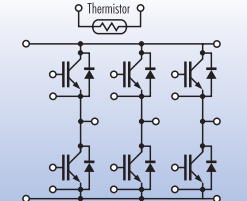
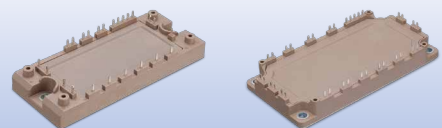
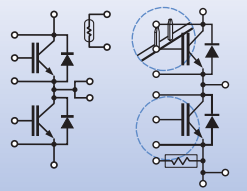
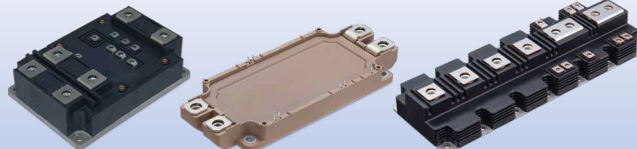


# The 7th Generation Module's Concept

- Improved switching performance
- Reduced on-state voltage
- Enhanced power cycling capability
- Increased output power
- $T_{j(op)}$ , max=175 °C
- Expanded current ratings
- High performance DCB substrates



## Line-up Plan

	<b>650 V</b>	10 A – 50 A	
	<b>1200 V</b>	10 A – 50 A	
	<b>650 V</b>	50 A – 200 A	
	<b>1200 V</b>	50 A – 200 A	
<p style="text-align: center;">7th Generation Power Modules DualXT</p> 	<b>650 V</b>	150 A – 600 A	
	<b>1200 V</b>	100 A – 800 A	
	<b>1700 V</b>	75 A – 600 A	
	<b>3300 V</b>	450 A – 1500 A	