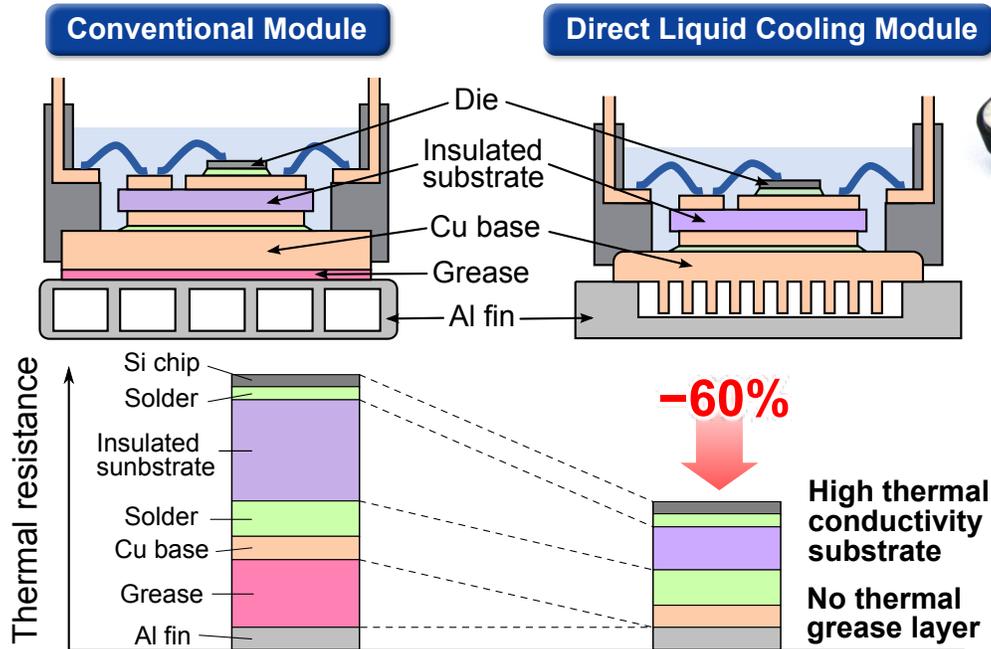


Fuji Electric IGBT Modules for Automotive Applications

- 650V/400A, 650V/600A 6-pack module
- 6th gen. V-IGBT chip technology
- Direct liquid cooling Cu-base
- Higher reliability, longer lifetime
- Pb free, compact package



Direct liquid cooling base plate with square pin-fins

Product Line-up

		Motor Power				
		10kW	20kW	50kW	100kW	200kW
V_{CES}	600V / 650V		2in1 M651	M652		
	1200V			2in1 IPM		

Specifications



6MBI400VW-065V

Package	M651: 105mm x 108mm
Continuous current	210A @Tw=65°C
Maximum V _{CE} voltage	650V
Maximum temperature	T _j = 175°C, T _{jop} = 150°C
Maximum output power	60kVA @Tw=65°C, V _{pn} =300V, I _{out} =200Arms, fc=10kHz



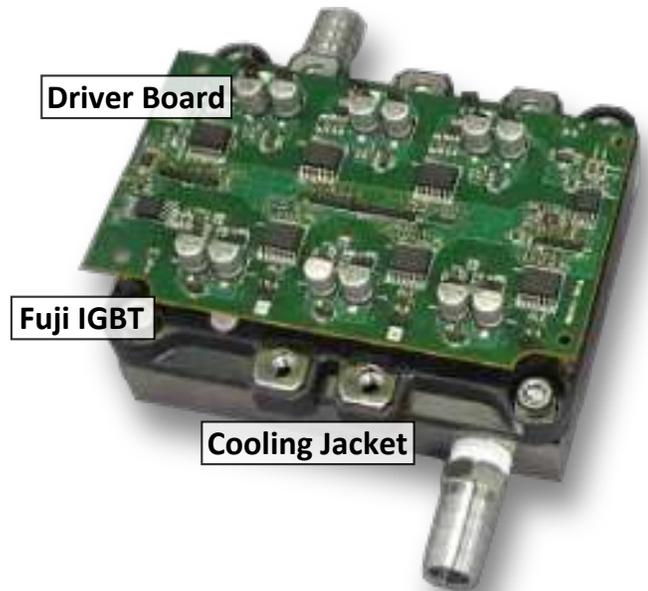
6MBI600VW-065V

Package	M652: 131mm x 113mm
Continuous current	300A @Tw=65°C
Maximum V _{CE} voltage	650V
Maximum temperature	T _j = 175°C, T _{jop} = 150°C
Maximum output power	90kVA @Tw=65°C, V _{pn} =300V, I _{out} =300Arms, fc=10kHz

Evaluation Driver Board

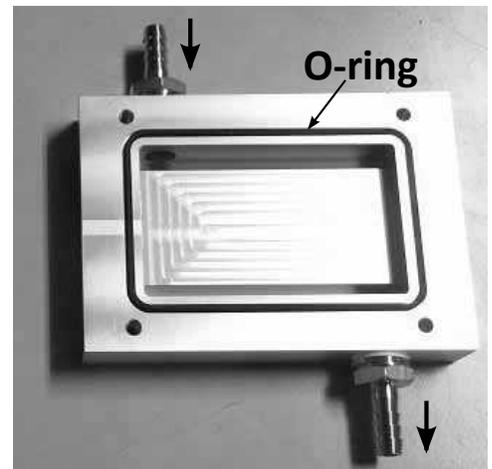
Available for 6MBI400VW-065V and 6MBI600VW-065V

- Plug and Play driver board
- Optically isolated PWM input
- Short circuit detection
- Under voltage lock-out protection



Optimized Liquid Cooling Jacket

- Good heat spreading
- Low thermal resistance
- Low pressure loss



Circuit Diagram

