



Full-SiC Power Modules for Industrial Equipment

Under development

Contributes to reducing size/weight of industrial-use inverters

■ Features

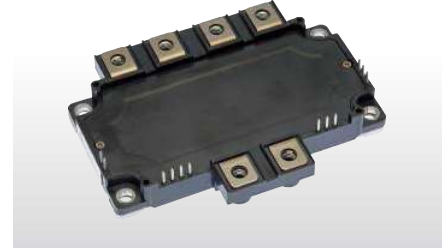
- Power loss reduced approx. 70% compared to the conventional product*
- Low-inductance package adopted to deliver full SiC performance
- Contributes to increasing the output current and downsizing peripheral components by low power loss characteristics of SiC

*Comparison with the same rated value of the conventional 7th Gen. IGBT modules

■ Product lineup

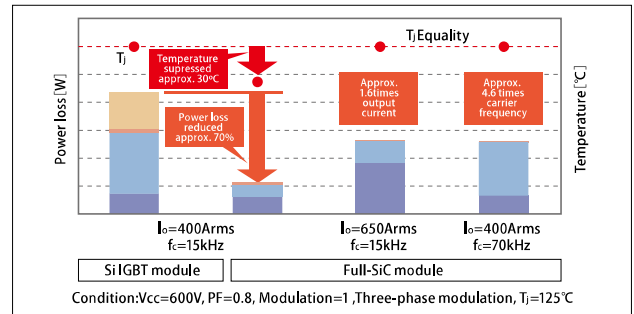
Model	Rated voltage	Rated current	Circuit configuration	Package size (D x W)
FMF400BX-24B**	1200V	400A	4 in 1	92.3mm x 121.7mm
FMF800DX-24B**		800A	2 in 1	

★★:Under development



■ Power loss comparison

1200V/800A Full SiC Power module



Full-SiC Power Modules for Industrial Equipment

(built-in short-circuit protection function) Under development

Contributes to enhancing the performance of industrial-use inverters thanks to built-in protection function for short circuit

■ Features

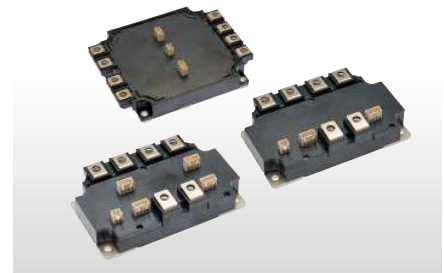
- By using short circuit monitoring circuit in the module it is possible to transfer a short circuit detection signal to the system side
- Power loss reduced approx. 70% compared to the conventional product*
- Low-inductance package adopted to deliver full SiC performance

*Comparison with the same rated value of the conventional 7th Gen. IGBT modules

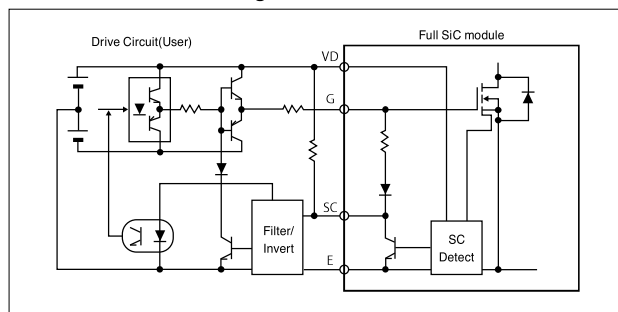
■ Product lineup

Model	Rated voltage	Rated current	Circuit configuration	Package size (D x W)
FMF300BXZ-24B**	1200V	300A	4 in 1	79.6mm x 122mm
FMF400BXZ-24B**		400A	4 in 1	
FMF600DXZ-24B**		600A	2 in 1	
FMF800DXZ-24B**		800A	2 in 1	
FMF1200DXZ-24B**	1700V	1200A	2 in 1	152mm x 122mm
FMF300DXZ-34B**		300A	2 in 1	
FMF300EXZ-34B**		300A	2 in 1 (Chopper)	

★★:Under development



■ Protection circuit diagram



■ Power loss comparison

1200V/800A Full SiC Power module

