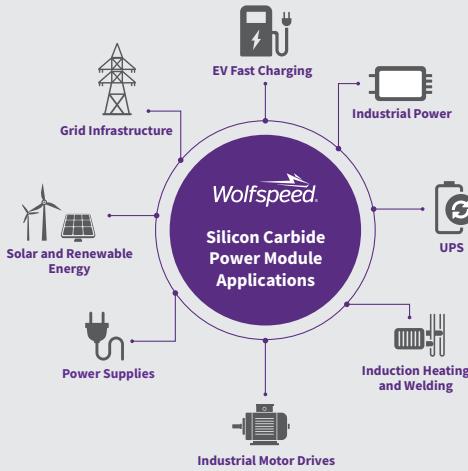




## WOLFSPEED® POWER MODULES

PROVIDING THE MOST EXTENSIVE LINEUP OF MODULES TO DATE, SERVING INDUSTRIAL, CRITICAL ENVIRONMENT, AND MOBILITY MARKETS

Silicon Carbide technology has shown performance improvements over traditional silicon (Si) components across the board, including lower power losses, faster switching, higher operating temperatures, greater power density, and overall higher efficiency. Wolfspeed's upgraded portfolio of power modules can provide these advantages in industry standard footprints and optimized footprints, even in the most demanding applications. Wolfspeed's power modules are designed to provide system scalability and flexibility. They come with a variety of features, providing higher ampacity, smaller size, and scale from 1 amp to nearly 1000 amps, which makes them a perfect fit for your power designs.



	Part Number	Blocking Voltage (V)	Normal Current (A)	R <sub>DS(ON)</sub> (mΩ) at 25°C
G PLATFORM Standard 56.7mm	CAB006A12GM3 NEW	1200	200	6
	CAB006M12GM3 NEW	1200	200	6
	CAB008A12GM3 NEW	1200	194	8
	CAB008M12GM3 NEW	1200	146	8

X PLATFORM Optimized 53mm	CAB450M12XM3	1200	450	2.6
	EAB450M12XM3 NEW	1200	450	2.6
	CAB425M12XM3	1200	425	3.2
	CAB400M12XM3	1200	400	4
	EAB525M12XM3*	1200	525	2.6
	CAB525M12XM3*	1200	525	2.6
	CAB320M17XM3*	1700	320	4

H PLATFORM Optimized 62mm	CAR600M12HN6*	1200	600	N/A
	CAB760M12HM3	1200	765	1.33
	CAB760M12HM3R NEW	1200	765	1.33
	CAS480M12HM3	1200	480	2.29
	CAB650M17HM3*	1700	650	1.67
	CAS380M17HM3*	1700	380	3.3
	CAB500M17HM3*	1700	500	2.5
	CAR600M17HN6*	1700	600	N/A

	Part Number	Blocking Voltage (V)	Normal Current (A)	R <sub>DS(ON)</sub> (mΩ) at 25°C
B PLATFORM Standard 62mm	CAB530M12BM3	1200	530	2.7
	CAS530M12BM3*	1200	530	2.7
	WAS530M12BM3*	1200	530	2.7
	WAB400M12BM3	1200	400	3.7
	CAS350M12BM3*	1200	350	4
	WAS350M12BM3*	1200	350	4
	WAB300M12BM3	1200	300	4.5
	CAS300M12BM2	1200	300	5
	CAS175M12BM3*	1200	175	8
	WAS175M12BM3*	1200	175	8
	CAS110M12BM2	1200	110	12.5
	CAS120M12BM2	1200	120	13
	CAS310M17BM3*	1700	310	5
	WAS310M17BM3*	1700	310	5
	CAS300M17BM2	1700	300	8

F PLATFORM Standard 33.8mm	CAB011M12FM3 NEW	1200	105	11
	CAB016M12FM3 NEW	1200	78	16
	CCB021M12FM3 NEW	1200	51	21
	CCB032M12FM3 NEW	1200	40	32

\*Coming Soon

## WOLFSPEED® POWER MODULES

### Wolfspeed WolfPACK™ Silicon Carbide power modules



The all-new new Wolfspeed WolfPACK family of products (FM3/GM3) delivers power in a baseplate-less, press-fit-interconnect housing. Two of the most common MOSFET arrangements — six-pack and half-bridge currently — are offered with this product family to allow numerous power stages the ability to benefit from the advantages of Silicon Carbide. The new GM3 Aluminum Nitride Substrate dramatically reduces thermal resistance, lowers junction temperature for given loss, enhances power cycling lifetime for given losses, and enables higher utilization of Silicon Carbide performance.

### Wolfspeed's XM Silicon Carbide power modules



With half the weight and volume of a standard 62 mm module, the XM3 power module maximizes power density while minimizing loop inductance and enabling simple power bussing. The XM3's Silicon Carbide optimized packaging enables 175°C continuous junction operation with a high reliability silicon nitride ( $\text{Si}_3\text{N}_4$ ) power substrate to ensure mechanical robustness under extreme conditions.

### Wolfspeed's BM industry-standard 62-mm footprint power modules

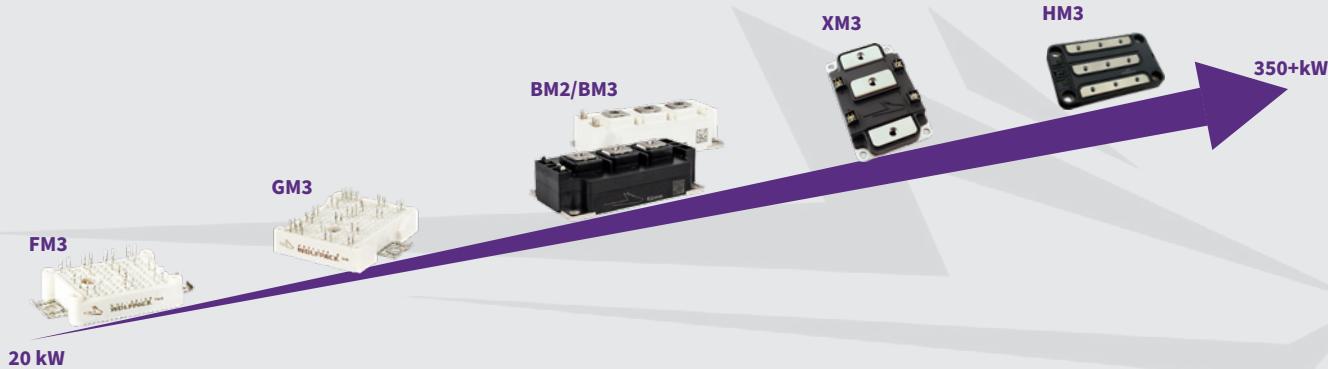


The family of BM 62 mm modules comes in 1.2 kV and 1.7 kV half-bridge topologies that deliver up to 530 A. Material for these modules have been selected to target different operating conditions. Wolfspeed offers THB-80 qualified housing material option to provide additional robustness for applications against harsher environment.

### Wolfspeed's HM Silicon Carbide power modules



The HM3 family of devices offers Wolfspeed's highest-power-density power modules available. With a lightweight Aluminum Silicon Carbide (AlSiC) baseplate, compact footprint that supports high currents (<800 A), and low inductance at high frequencies, the HM3 delivers a Silicon Carbide-optimized footprint with unprecedented power density.



# Mouser Electronics

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