

# BM (62mm) Module Platform

## Platform Benefits:

Industry-Standard 62mm Footprint

Fast Time-to-Market with Existing 62mm Compatible Designs

Third Generation MOSFET Technology Available

Low Inductance (10-15 nH) Design

Industry-Standard("C") &amp; THB-80 (HV-H3TRB) High Humidity ("W") Qualified Variants

## Module Size:

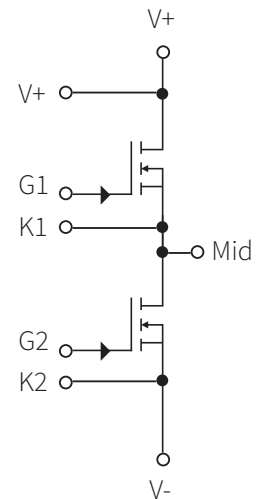
106 x 62 x 30mm

## Topology:

Half-Bridge

## Targeted Applications:

Motor & Traction Drives, UPS,  
EV Charging Infrastructure, Rail,  
Industrial Automation & Testing



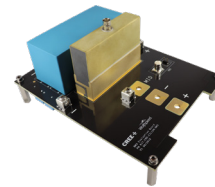
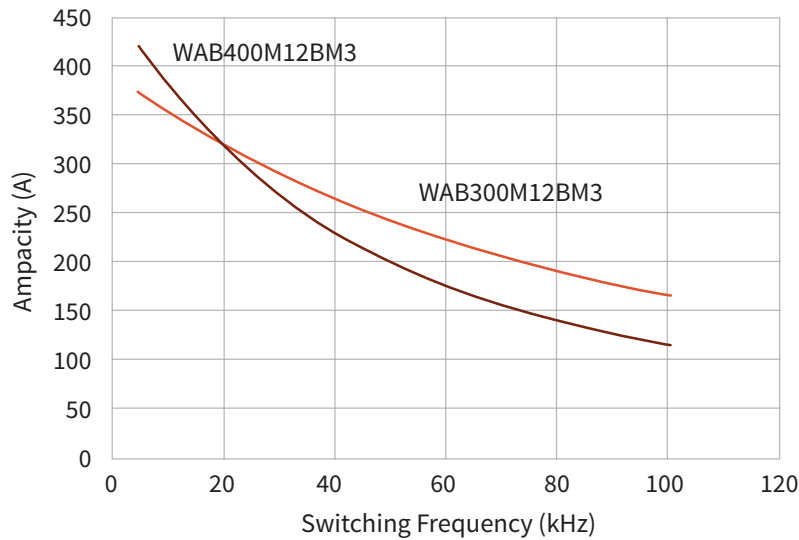
Part Number	Blocking Voltage (V)	Current (A)	Rds (on) (mOhm)	Features
CAS120M12BM2	1200	120	13	Second Generation MOSFETs + Anti-Parallel Schottky Diodes
CAS300M12BM2	1200	300	4.2	Second Generation MOSFETs + Anti-Parallel Schottky Diodes
CAS300M17BM2	1200	300	8	Second Generation MOSFETs + Anti-Parallel Schottky Diodes
WAB400M12BM3	1200	400	3.7	THB-80 Rated, 175 °C T <sub>jmax</sub> , Conduction-Loss Optimized Third Generation MOSFETs Only
WAB300M12BM3	1200	360	4.5	THB-80 Rated, 175 °C T <sub>jmax</sub> , Switching-Loss Optimized Third Generation MOSFETs Only

C-BM3 part numbers coming soon with Third Generation MOSFETs + Anti-Parallel Schottky Diodes

## BM (62mm) Module Platform

**Support Rapid SiC Proof-of-Concept System Evaluation  
Optimized for Wolfspeed's BM3 Half Bridge SiC Modules**

### W-BM3 Performance Comparison:



### Companion Gate Driver:

CGD1200HBP-BM2 for Gen2 Configurations

CGD1200HBP-BM3 for Gen3 Configurations

On-Board 2 W Isolated Power Supplies

Replaceable, Easy-Access Turn-On and Turn-Off Gate Resistors for Switching Loss Optimization

On-Board Overcurrent, Shoot-Through Prevention and Reverse Polarity Protection with LEDs for Instant Feedback

Very Low Isolation Capacitance (<5 pF) and 100 kV/μs Common-Mode Transient Immunity (CMTI)

Design Documentation Available for Download on Website

Differential Inputs for Increased Noise Immunity with CGD12HB00D Available Separately to enable Single-Ended Testing

### KIT-CRD-CIL12N-BM Dynamic Evaluation Kit:

Evaluate and Optimize the Switching Performance of the BM (62mm) Module Platform

Compatible with 350 MHz Current Shunt

Includes Bulk and High-Frequency Film Capacitors with Low Stray Inductance

Configurable Connections to Evaluate Both Low- and High-Side Switching

Documentation Available for Download on Website: Schematic, Bill of Materials, Board Layout and Application Note