

M50 SERIES

POWER MODULES



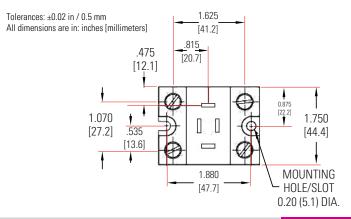
Features

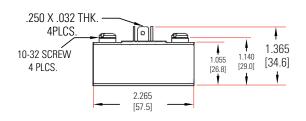
- Over 40 kW output capability
- 4 Different Circuits to Choose from
- 50 and 100 A outputs
- UL Recognized E72445

SPECIFICATIONS

Part Number	Symbol	M5050	M50100
Maximum DC Output Current (Tc= 85°C)	I _D	50 A	100 A
Maximum Voltage Drop @ Amps Peak	V _F	1.35V @ 50A	1.2V @ 100 A
Operating Junction Temperature Range	T_{J}	-40 - 125°C	-40 - 125°C
Repetitive Peak Reverse Voltage (AC Line Nominal) [Vpk]	Vrrms	600 (240 VAC)	
		800 (280 VAC)	
		1200 (480 VAC)	
Maximum Non-Repetitive Surge Current (1/2 Cycle, 60 Hz) [A]	I _{TSM}	800	1500
Maximum I ² t for Fusing (t=8.3ms)[A ² sec]	l²t	2650	9350
Maximum Thermal Resistance, Junction to Ceramic Base per Chip [°C/W]	R_{JC}	0.45°C/W	0.3°C/W
Isolation Voltage [Vrms]	V _{ISOL}	2500	
Weight (typical)	4.5 oz (158g)		

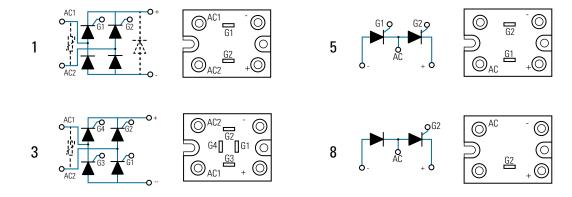
MECHANICAL SPECIFICATIONS

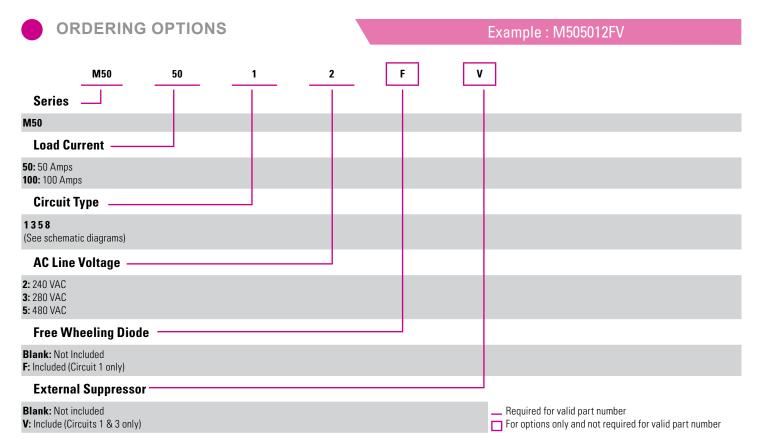




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CIRCUIT DIAGRAMS





NOTE: Not all combinations are available.

Consult factory for information on the availability of a specific part number.

AGENCY APPROVALS & CERTIFICATIONS







RISK OF MATERIAL DAMAGE AND HOT ENCLOSURE

- The product's side panels may be hot, allow the product to cool before touching
- Follow proper mounting instructions including torque values
- Do not allow liquids or foreign objects to enter this product

Failure to follow these instructions can result in serious injury, or equipment damage.



HAZARD OF ELECTRIC SHOCK, EXPLOSION OR ARC FLASH

- Disconnect all power before installing or working with this equipment
- · Verify all connections and replace all covers before turning on power

Failure to follow these instructions will result in death or serious injury.

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