Crydom tests are exhaustive, including 100% verification at final test. After units are fully assembled, they must pass a complete set of electrical tests, which are performed twice, once prior to encapsulation and then again afterward.

Because of our dedication to quality, Crydom was one of the first American companies to achieve full certification to the demanding standards of ISO 9001. In addition, most Crydom products are approved by UL, CSA, VDE, TUV and carry the CE Mark signifying conformance with the latest European directives.

Learn how an alliance with the world leader in solid state relays and power modules can pay off for you. For details, call your authorized Crydom distributor today.

Power Modules

Power Modules are power switching/control circuit elements integrated into convenient isolated-base packages, offering a broad spectrum of commonly used Diode, SCR, or SCR/Diode circuit configurations and ratings. Used in many types of equipment by a variety of industries, they utilize Crydom's renowned advanced thermal management techniques. The modules are mechanically and thermally optimized for ease of assembly, long life and reliable operation. Significant cost savings are realized from reductions in design, volume, mounting, connection, cooling, field maintenance, parts count, acquisition and inventory costs.

Typical Applications

AC motor drive front end
Appliances
Battery charging
Cathodic protection
Converters
Conveyors
DC-choppers
Electroplating
Elevator controls
Heater controls
HVAC controls
Inverters
Medical Electronics
Motor controls, AC
Motor controls, DC
Motor starters
Power Factor Correction
Power supplies
Reverse polarity protection
Traction
Transportation
UPS systems
Welding

Custom Designs

Crydom's Sales and Technical Support teams work closely with you to define and develop customized solutions for your unique requirements. We can help you get that competitive edge necessary to be a leader in your industry. In-house capabilities include ceramic substrate production, SMT (surface mount technology) placement/insertion robotics assembly and elevated/low temperature monitored testing. All this interprets into fast-track design, prototype preparation, test, evaluate, adjust and finalize as necessary to achieve the specified performance criteria. Upon final customer approval we can quickly gear up to meet your production schedules in our ISO9001 certified manufacturing environment.

CST CUSTOM SENSORS & TECHNOLOGIES

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Across the Globe

Crydom is an operation of Custom Sensors & Technologies (CST), a business unit of Schneider Electric.

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THE GLOBAL EXPERT IN SOLID STATE POWER SWITCHING TECHNOLOGY

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CST CUSTOM SENSORS & TECHNOLOGIES

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Power Modules

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Crydom has a distinguished record of providing advanced, high quality products with timely delivery and competitive pricing. Your success in today's fast-paced global markets hinges on working with suppliers who respond quickly and appropriately to your every need.

In addition to an extensive selection catalog off-the-shelf items, Crydom offers custom-designed power switching modules. Fact is we specialize in satisfying the most demanding environmental and performance requirements our customer can devise. Give us your specs, and watch us exceed your expectations!

At Crydom's custom-built **100,000 square foot manufacturing facility**, virtually everything is accomplished in-house to assure complete control over delivery, production and above all quality. With design, development, manufacturing and management personnel under one roof, we're geared for fast response to your requirements.

In **Design Engineering**, we focus on pushing performance, reliability and quality standards ever higher. Working under a conservative design and rating philosophy, Crydom's seasoned engineering team makes extensive use of CAD to optimize design of mechanical parts.

As a result of these efforts, Crydom has acquired and impressive list of patents in power switching technology, while continuing to create new circuit and technology-related inventions as part of our ongoing R & D programs.

Once the design is solidified, **Production Engineering** is responsible for the engineering control of the techniques used throughout manufacturing. This department works closely with our design engineering group, establishes assembly processes, and oversees a comprehensive on-premises machine shop which fabricates our assembly fixtures.

As the work progresses, **Material and Production Control** employ our advanced computer system, upgraded with our customized software to keep manufacturing operations humming. The Computer system employs integral MRP and MSP capabilities to generate detailed scheduling and planning information.

Ceramic Hybrid Manufacturing also is performed in-house. Crydom manufactures all metallized ceramic substrates used in our relays – a major factor in product performance and reliability, including direct bond copper substrates.

Quality Assurance conducts ongoing product reliability verification tests, gathering precise data on the quality of our power semiconductor vendors and the silicon chips they provide. Additional tests are performed to meet specific customer burn-in requirements.

www.crydom.com

L
15-42.5Amp
SCR/Diode Modules
Low Profile
Designed for PCB Connections

Circuit Modules provide ratings up to 42.5 amps in a low profile package designed for printed circuit board connections. Available in three standard bridge circuits and an AC switch version, all models have 2500 Vrms isolation and are UL recognized under file E72445. Mounting clip available, order part no. LMC-1.

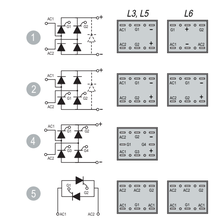
PART NUMBER IDENTIFICATION

Series	Current	Circuit Type	AC Line Voltage	Options
L	3 - 15 Amps	1 - 5	1 - 120 Vac	F - Free
	5 - 25 Amps	(See schematic	2 - 240 Vac	Wheeling
	6 - 42.5 Amps*	diagrams)	3 - 280 Vac	Diode
			4 - 480 Vac	(Circuits 1, 2)

Example: L512F

* 42.5 Amp Rating Not Available In Circuit 4

ELECTRICAL SPECIFICATIONS		L3	L5	L6
I_D	Maximum DC Output Current @ Tc = 85°C	15A	25A	42.5A
V_F	Maximum Voltage Drop @ Amps Peak	2.2V@15A	1.65V@25A	1.6V@42.5A
T_J	Operating Junction Temperature Range	-40°C to +125°C	-40°C to +125°C	-40°C to +125°C
di/dt	Critical Rate of Rise of On-State Current @ TJ=125°C	100 A/µs	100 A/µs	100 A/µs
dv/dt	Critical Rate of Rise of Off-State Voltage	500 V/µs	500 V/µs	500 V/µs
V_{RMS}	AC Line Input Voltage (Repetitive Peak Reverse Voltage)	120 (400 V_{RRM}) 240 (800 V_{RRM}) 280 (800 V_{RRM}) 480 (1200 V_{RRM})	120 (400 V_{RRM}) 240 (800 V_{RRM}) 280 (800 V_{RRM}) 480 (1200 V_{RRM})	120 (400 V_{RRM}) 240 (800 V_{RRM}) 280 (800 V_{RRM}) 480 (1200 V_{RRM})
I_{TSM}	Maximum Non-Repetitive Surge Current ($\frac{1}{2}$ Cycle, 60Hz)	225 A	300 A	600 A
I^2T	Maximum I^2T for Fusing (t=8.3ms)	210A^2sec	375A^2sec	1500A^2sec
I_{GT}	Maximum Required Gate Current to Trigger @ 25°C	60 mA	60 mA	80 mA
V_{GT}	Maximum Required Gate Voltage to Trigger @ 25°C	2.5V	2.5V	3.0V
$P_{G(AV)}$	Average Gate Power	0.5W	0.5W	0.5W
V_{GM}	Maximum Peak Gate Voltage (Reverse)	5.0V	5.0V	5.0V
$R_{\theta JC}$	Maximum Thermal Resistance Junction to Ceramic Base per Chip	1.25°C/W	0.9°C/W	0.7°C/W
V_{ISOL}	Isolation Voltage	2500 V_{RMS}	2500 V_{RMS}	2500 V_{RMS}



F18
25-105Amp
Diode, SCR/Diode Modules
Standard Package and Circuits

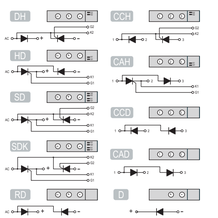
Modules come in an industry standard package, offering nine circuits that can be used singly or as power control building blocks. All models feature highly efficient thermal management for greatly extended cycle life and are UL recognized under file E72445.

PART NUMBER IDENTIFICATION

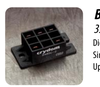
Series	Current	Circuit Type	AC Line Voltage
F18	27 - 25 Amps	(See schematic	400 - 120 Vac
	42 - 40 Amps	diagrams)	600 - 240 Vac
	57 - 55 Amps	Example: SD	1000 - 380 Vac
	92 - 90 Amps		1200 - 480 Vac
	107 - 105 Amps		1400 - 530 Vac
			1600 - 600 Vac

Example: F18923D1200

ELECTRICAL SPECIFICATIONS		27	42	57	92	107
I_D	Maximum DC Output Current @ Tc = 85°C	25A	40A	55A	90A	105A
V_F	Maximum Voltage Drop @ Amps Peak	1.55V@75A	1.4V@120A	1.4V@165A	1.4V@270A	1.65V@300Apk
T_J	Operating Junction Temperature Range	-40°C to +125°C				
di/dt	Critical Rate of Rise of On-State Current @ TJ=125°C	100 A/µs	100 A/µs	100 A/µs	100 A/µs	100 A/µs
dv/dt	Critical Rate of Rise of Off-State Voltage	500V/µs	500V/µs	500 V/µs	500 V/µs	500 V/µs
V_{RRM}	Repetitive Peak Reverse Voltage (AC Line Input Voltage)	120 (400 V_{RRM}) 240 (800 V_{RRM}) 280 (800 V_{RRM}) 480 (1200 V_{RRM}) 530 (1400 V_{RRM}) 600 (1600 V_{RRM})				
I_{TRM}	Maximum Non-Repetitive Surge Current ($\frac{1}{2}$ Cycle, 60Hz)	400A	1000A	1500A	1950A	2250A
I^2T	Maximum I^2T for Fusing (t=8.3ms)	670A^2sec	4150A^2sec	9350A^2sec	15800A^2sec	25000A^2sec
I_{GT}	Maximum Required Gate Current to Trigger @ 25°C	150mA	150mA	150mA	150mA	150mA
V_{GT}	Maximum Required Gate Voltage to Trigger @ 25°C	3.0V	3.0V	3.0V	3.0V	3.0V
$P_{G(AV)}$	Average Gate Power	0.5W	0.5W	0.5W	0.5W	0.5W
V_{GM}	Maximum Peak Gate Voltage (Reverse)	5.0V	5.0V	5.0V	5.0V	5.0V
$R_{\theta JC}$	Maximum Thermal Resistance Junction to Ceramic Base per Module	0.4°C/W	0.28°C/W	0.25°C/W	0.14°C/W	0.135°C/W
V_{ISOL}	Isolation Voltage	2500V_{RMS}	2500V_{RMS}	2500V_{RMS}	2500V_{RMS}	2500V_{RMS}



Complete product specifications available at: **www.crydom.com**



B48-2T, B48-2
35-50Amp
Diode Modules
Single and Three Phase Circuits
Up to 1600 Volt Blocking Standard

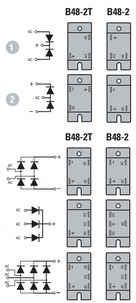
Single- and three-phase diode circuits come in panel mount package that provides 2500 Vrms isolation from the terminals to the ceramic base. Available in ratings up to 1600 Volts, all models are UL recognized under file E72445.

PART NUMBER IDENTIFICATION

Series	Circuit Type	Voltage	Case Style
B48	1 - 5	B - 400 (120Vac)	-2T (Standard)
	(see schematic	C - 600 (240Vac)	-2 With Isolation Barriers
	diagrams)	E - 1000 (380Vac)	
		F - 1200 (480Vac)	
		G - 1400 (530Vac)	
		H - 1600 (600Vac)	

Example: B483C-2T

ELECTRICAL SPECIFICATIONS		SINGLE PHASE	THREE PHASE
I_D	Maximum DC Output Current (Tc = 85°C)	35A	50A
V_F	Maximum Voltage Drop @ Amps Peak	1.25V @ 35A	1.35V @ 50A
T_J	Operating Junction Temperature Range	-40°C to +125°C	-40°C to +125°C
V_{RRM}	Repetitive Peak Reverse Voltage (AC Line Input Voltage)	120 (400 V_{RRM}) 240 (800 V_{RRM}) 380 (1000 V_{RRM}) 480 (1200 V_{RRM}) 530 (1400 V_{RRM}) 600 (1600 V_{RRM})	
I_{TSM}	Maximum Non-Repetitive Surge Current ($\frac{1}{2}$ Cycle, 60Hz)	600A	600A
I^2T	Maximum I^2T for Fusing (t=8.3ms)	1500A^2sec	1500A^2sec
$R_{\theta JC}$	Maximum Thermal Resistance Junction to Ceramic Base per Chip	0.9°C/W	0.9°C/W
V_{ISOL}	Isolation Voltage	2500 V_{RMS}	2500 V_{RMS}



B-2T, B-2
25-42.5Amp
SCR/Diode Modules
Eight Standard Circuits
AC or DC Variable Voltage Output to 15KW

Modules come in eight standard circuits and are designed to control AC and DC variable voltage output up to 15KW. The package comes with standard .250 quick-connect terminals. All modes have 2500 Vrms isolation and are UL recognized under file E72445. Optional isolation barriers are available.

PART NUMBER IDENTIFICATION

Series	Current	Circuit Type	AC Line Voltage	Options*	Case Style
B	5 - 25 Amps	1 - 8	1 - 120 Vac	F - Free Wheeling Diode	-2T (Standard)
	6 - 42.5 Amps	(see schematic	2 - 240 Vac	(Circuits 1 & 2 Only)	-2 With Isolation
		diagrams)	3 - 280 Vac	SE - External Suppressor	Barriers
			4 - 480 Vac	(-2T Only, Circuits 1-6 Only)	

Example: B512FSE-2T

ELECTRICAL SPECIFICATIONS		B5	B6
I_D	Maximum DC Output Current (Tc = 85°C)	25A	42.5A
V_F	Maximum Voltage Drop @ Amps Peak	1.65V @ 25A	1.6V @ 42.5A
T_J	Operating Junction Temperature Range	-40°C to +125°C	-40°C to +125°C
di/dt	Critical Rate of Rise of On-State Current @ TJ=125°C	100A/µs	100A/µs
dv/dt	Critical Rate of Rise of Off-State Voltage	500V/µs	500V/µs
V_{RMS}	AC Line Input Voltage (Repetitive Peak Reverse Voltage)	120 (400 V_{RRM}) 240 (800 V_{RRM}) 280 (800 V_{RRM}) 380 (1000 V_{RRM}) 480 (1200 V_{RRM})	120 (400 V_{RRM}) 240 (800 V_{RRM}) 280 (800 V_{RRM}) 380 (1000 V_{RRM}) 480 (1200 V_{RRM})
I_{TSM}	Maximum Non-Repetitive Surge Current ($\frac{1}{2}$ Cycle, 60Hz)	250A	600A
I^2T	Maximum I^2T for Fusing (t=8.3ms)	260A^2sec	1500A^2sec
I_{GT}	Maximum Required Gate Current to Trigger @ 25°C	60mA	80mA
V_{GT}	Maximum Required Gate Voltage to Trigger @ 25°C	2.5V	3.0V
$P_{G(AV)}$	Average Gate Power	0.5W	0.5W
V_{GM}	Maximum Peak Gate Voltage (Reverse)	5.0V	5.0V
$R_{\theta JC}$	Maximum Thermal Resistance Junction to Ceramic Base per Chip	0.9°C/W	0.7°C/W
V_{ISOL}	Isolation Voltage	2500 V_{RMS}	2500 V_{RMS}

*F option available in 1 and 2 circuits only, SE option available on -2T in circuits 1-6 only.

Complete product specifications available at: **www.crydom.com**

M50 SCR/Diode Modules
50-100Amp
Over 40KW Output Capability

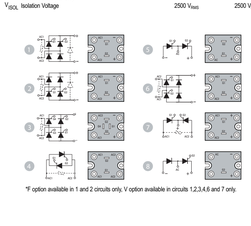
The M50 Series modules utilize highly efficient thermal management to provide high surge capability, long lifetime and reliable performance. Available in eight standard circuits, all models come in an industry standard package, provide 2500 Vrms from all terminals to the base plate and are UL recognized under file E72445.

PART NUMBER IDENTIFICATION

Series	Current	Circuit Type	AC Line Voltage	Options*
M50	50 - 50 Amps	1 - 8	1 - 120 Vac	F - Free Wheeling Diode
	100 - 100 Amps	(see schematic	2 - 240 Vac	V - External Suppressor
		diagrams)	3 - 280 Vac	
			4 - 380 Vac	
			5 - 480 Vac	

Example: M50012FV

ELECTRICAL SPECIFICATIONS		M5050	M50100
I_D	Maximum DC Output Current (Tc = 85°C)	50A	100A
V_F	Maximum Voltage Drop @ Amps Peak	1.7V @ 50A	1.4V @ 100A
T_J	Operating Junction Temperature Range	-40°C to +125°C	-40°C to +125°C
di/dt	Critical Rate of Rise of On-State Current @ TJ=125°C	100A/µs	100A/µs
dv/dt	Critical Rate of Rise of Off-State Voltage	500V/µs	500V/µs
V_{RMS}	AC Line Input Voltage (Repetitive Peak Reverse Voltage)	120 (400 V_{RRM}) 240 (800 V_{RRM}) 280 (800 V_{RRM}) 380 (1000 V_{RRM}) 480 (1200 V_{RRM})	120 (400 V_{RRM}) 240 (800 V_{RRM}) 280 (800 V_{RRM}) 380 (1000 V_{RRM}) 480 (1200 V_{RRM})
I_{TSM}	Maximum Non-Repetitive Surge Current ($\frac{1}{2}$ Cycle, 60Hz)	600A	1500A
I^2T	Maximum I^2T for Fusing (t=8.3ms)	1500A^2sec	9350A^2sec
I_{GT}	Maximum Required Gate Current to Trigger @ 25°C	150mA	150mA
V_{GT}	Maximum Required Gate Voltage to Trigger @ 25°C	3.0V	3.0V
$P_{G(AV)}$	Average Gate Power	0.5W	0.5W
V_{GM}	Maximum Peak Gate Voltage (Reverse)	5.0V	5.0V
$R_{\theta JC}$	Maximum Thermal Resistance Junction to Ceramic Base per Chip	0.36°C/W	0.36°C/W
V_{ISOL}	Isolation Voltage	2500 V_{RMS}	2500 V_{RMS}



*F option available in 1 and 2 circuits only, V option available in circuits 1,2,3,4,6 and 7 only.

Complete product specifications available at: **www.crydom.com**

M50 Diode Modules
60-100Amp
High Surge Current Rectifier Circuits
Up to 1600 Volt Blocking Standard

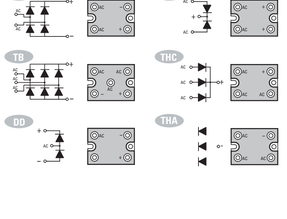
Single- and three-phase diode circuits incorporate highly efficient thermal management to provide high surge capability, extended life, and reliable performance. Available in five circuits, all models come in an industry standard package, provide 2500 Vrms from all terminals to the baseplate, and are UL recognized under file E72445.

PART NUMBER IDENTIFICATION

Series	Current	Circuit Type	Voltage
M50	60 - 60 Amps	(see schematic	400 (120Vac) 1200 (480Vac)
	100 - 100 Amps	diagrams)	600 (240Vac) 1400 (530Vac)
		Example: TB	1000 (380Vac) 1600 (600Vac)

Example: M50100TB1200

ELECTRICAL SPECIFICATIONS		M5060	M50100
I_D	Maximum DC Output Current (Tc = 85°C)	60A	100A
V_F	Maximum Voltage Drop @ Amps Peak	1.35V @ 60A	1.2V @ 100A
T_J	Operating Junction Temperature Range	-40°C to +125°C	-40°C to +125°C
V_{RRM}	(Repetitive Peak Reverse Voltage (AC Line)	120 (400 V_{RRM}) 240 (800 V_{RRM}) 380 (1000 V_{RRM}) 480 (1200 V_{RRM}) 530 (1400 V_{RRM}) 600 (1600 V_{RRM})	120 (400 V_{RRM}) 240 (800 V_{RRM}) 380 (1000 V_{RRM}) 480 (1200 V_{RRM}) 530 (1400 V_{RRM}) 600 (1600 V_{RRM})
I_{TRM}	Maximum Non-Repetitive Surge Current ($\frac{1}{2}$ Cycle, 60Hz)	800A	1500A
I^2T	Maximum I^2T for Fusing (t=8.3ms)	2650A^2sec	9350A^2sec
$R_{\theta JC}$	Maximum Thermal Resistance Junction to Ceramic Base per Chip	0.45°C/W	0.3°C/W
V_{ISOL}	Isolation Voltage	2500 V_{RMS}	2500 V_{RMS}



EF
50-170Amp
Diode, SCR/Diode Modules
High Thermal Efficiency

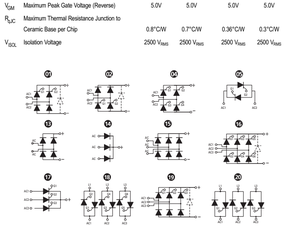
These circuits provide complete power control in a single package, utilizing high thermal efficency to assure long life and reliable performance. Twelve standard models provide 2500 Vrms isolation from all terminals to ceramic base and are UL recognized under file E72445.

PART NUMBER IDENTIFICATION

Series	Current (Amps)		Circuit Type	Voltage	Options
EF	1Ø	3Ø AC SW	(see schematic	B - 400 (120 Vac)	F - Free Wheeling Diode
	D - 50	70 55	diagrams)	C - 500 (240 Vac)	(Circuits 1,2,16,19)
	E - 75	100 85	Example: 01	E - 1000 (380 Vac)	
	F - 100	135 110		F - 1200 (480 Vac)	
	G - 125	170 140		G - 1400 (530 Vac)	

Example: EFD02CF

ELECTRICAL SPECIFICATIONS		D	E	F	G
I_D	Maximum DC Output Current (Tc = 85°C)	See Part Number Identification Above for Ratings of Single Phase, Three Phase and AC Switch Circuits			
V_F	Maximum Voltage Drop @ Amps Peak	1.7V @ 50A	1.85V @ 75A	1.4V @ 100A	1.55V @ 125A
T_J	Operating Junction Temperature Range	-40°C to +125°C		-40°C to +125°C	
di/dt	Critical Rate of Rise of On-State Current @ TJ=125°C	100A/µs		100A/µs	
dv/dt	Critical Rate of Rise of Off-State Voltage	500V/µs		500V/µs	
V_{RRM}	Repetitive Peak Reverse Voltage (AC Line)	120 (400 V_{RRM}) 240 (800 V_{RRM}) 380 (1000 V_{RRM}) 480 (1200 V_{RRM}) 530 (1400 V_{RRM})		120 (400 V_{RRM}) 240 (800 V_{RRM}) 380 (1000 V_{RRM}) 480 (1200 V_{RRM}) 530 (1400 V_{RRM})	
I_{TRM}	Maximum Non-Repetitive Surge Current ($\frac{1}{2}$ Cycle, 60Hz)	400A	600A	1500A	1950A
I^2T	Maximum I^2T for Fusing (t=8.3ms)	670A^2sec	1500A^2sec	9340A^2sec	15800A^2sec
I_{GT}	Maximum Required Gate Current to Trigger @ 25°C	60mA	80mA	150mA	150mA
V_{GT}	Maximum Required Gate Voltage to Trigger @ 25°C	2.5V	3.0V	3.0V	3.0V
$P_{G(AV)}$	Average Gate Power	0.5W	0.5W	0.5W	0.5W
V_{GM}	Maximum Peak Gate Voltage (Reverse)	5.0V	5.0V	5.0V	5.0V
$R_{\theta JC}$	Maximum Thermal Resistance Junction to Ceramic Base per Chip	0.8°C/W	0.7°C/W	0.36°C/W	0.3°C/W
V_{ISOL}	Isolation Voltage	2500 V_{RMS}	2500 V_{RMS}	2500 V_{RMS}	2500 V_{RMS}



Complete product specifications available at: **www.crydom.com**

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