



# Series LR

25-40Amp • 120/240/480Vac • AC Output

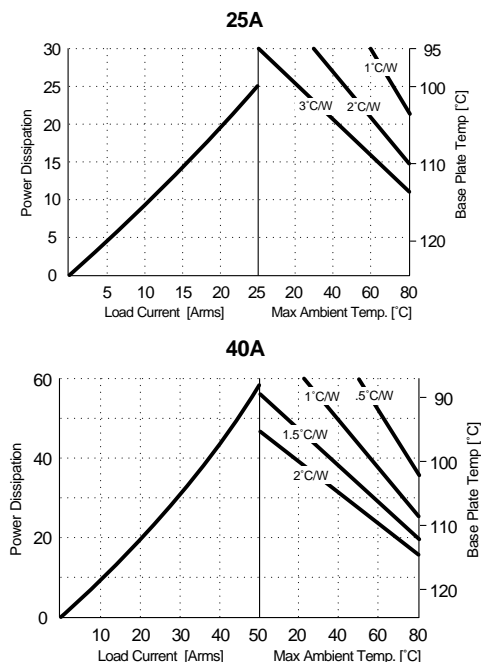
- DC Control, AC Output
- Zero Cross and Random Switching
- Up to 1200V Transient Capability
- SCR Output
- PCB Mount
- Low Profile

Manufactured in Crydom's ISO 9001 Certified facility for optimum product performance and reliability.

## MODEL NUMBERS

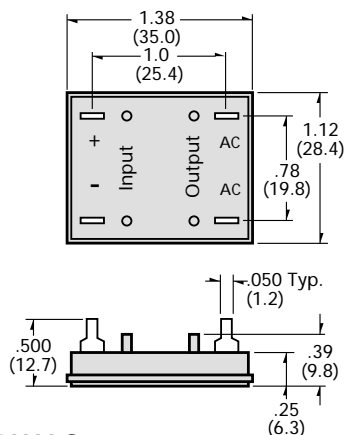
Zero Cross Turn-on	LR600240D25	LR600240D40	LR1200480D25	LR1200480D40
Random Turn-on	LR600240R25	LR600240R40	LR1200480R25	LR1200480R40

## CURRENT DERATING CURVES



## MECHANICAL DIMENSIONS

All dimensions are in inches (millimeters)



## OUTPUT SPECIFICATIONS<sup>①</sup>

Operating Voltage Range (47-63 Hz) [Vrms]	24-280	24-280	48-530	48-530
Load Current Range [Arms]	0.15-25	0.15-40	0.15-25	0.15-40
Transient Over-Voltage [Vpk]	600	600	1200	1200
Max. Surge Current Non-Repetitive, (16.6ms) [Apk]	250	400	250	400
Max. I <sup>2</sup> t For Fusing (8.3 msec.) [A <sup>2</sup> sec]	260	660	260	660
Min. Off-State dv/dt @ Max. Rated Voltage [V/μsec] <sup>③</sup>	500	500	500	500
Max. Off-State Leakage @ Rated Voltage [mArms]	0.1	0.1	0.1	0.1
Max. On-State Voltage Drop @ Rated Current [Vpk]	1.6	1.6	1.6	1.6
Max. Turn-On Time <sup>④</sup>	1/2 cycle	1/2 cycle	1/2 cycle	1/2 cycle
Max. Turn-Off Time	1/2 cycle	1/2 cycle	1/2 cycle	1/2 cycle
Power Factor (Min.) With Max. Load	0.5	0.5	0.5	0.5

## INPUT SPECIFICATIONS<sup>①</sup>

Control Voltage Range	4-32 Vdc
Must Turn On Voltage	4 Vdc
Must Turn Off Voltage	1 Vdc
Typical Input Current at 5Vdc <sup>⑤</sup>	9 mA

## GENERAL SPECIFICATIONS

Dielectric Strength <sup>②</sup>	2500 Vrms
Insulation Resistance (Min.) @ 500 Vdc <sup>②</sup>	10 <sup>9</sup> Ohm
Max. Capacitance	8.0 pF
Ambient Operating Temperature Range	-30 to 80°C
Ambient Storage Temperature Range	-30 to 125°C

## MECHANICAL SPECIFICATIONS

Weight: (typical)	0.5 oz. (14.4 g)
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## GENERAL NOTES

- ① All parameters at 25°C unless otherwise specified.
- ② Dielectric and insulation resistance are measured between input and output.
- ③ Off-State dv/dt test method per EIA/NARM standard RS-443.
- ④ Turn on time for random switching models is 0.1 ms
- ⑤ Input circuitry incorporates active current limiter.

## APPROVALS

UL (Pending)  
CSA (Pending)  
VDE (Pending)



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Rev.092502  
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For recommended applications and more information contact:  
USA: Sales Support (877) 502-5500 Tech Support (877) 702-7700 FAX (619) 710-8540  
Crydom Corp, 2320 Paseo de las Americas, Ste. 201, San Diego, CA 92154  
Email: sales@crydom.com WEB SITE: http://www.crydom.com  
UK: +44 (0)1202 365070 • FAX +44 (0)1202 365090 Crydom International Ltd., 7 Cobham Road, Ferndown Industrial Estate, Ferndown, Dorset BH21 7PE, Email: intsales@crydom.com.  
GERMANY: +49 (0)180 3000 506

