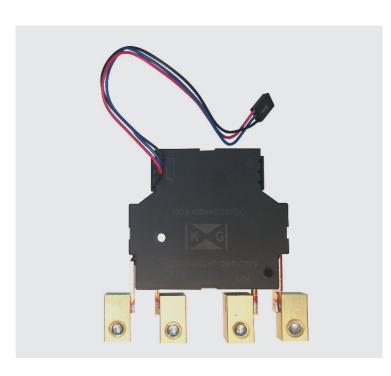


Load Shedding Product Catalog

Generator installation problem solvers through Smart Load Management



Relay Types



Magnetic Relays

- Small footprint, typically a quarter of the size of 100 & 200 Amp contactors
- Magnetic toggle is virtually silent in operation, no heat, humming or buzzing and never electrically held in either position
- Available in 1, 2, 3 or 4 relay models
- Available from 20 to 200 Amps in single and 3 phase configurations
- Control input can be dry contacts, 24 or 120 Volts AC. Can emulate a normally open or normally closed relay



Open Frame Relay

- Dual contacts provide normally closed and normally open circuits
- Virtually silent operation, no heat, humming or buzzing when using normally closed contacts
- Available in double pole for circuits up to 50 Amp capacity
- 24, 120 Volts AC and 12 Volts DC coil voltages available



Load Shedding Relays from 30-200 Amp Compatible with ANY generator or transfer switch

20-200 Amps Magnetic Latching Relays

Universal load dropping/regulating relays are designed to work independently as a load dropping system, or interface seamlessly with any generator transfer switch load management controller. Magnetic latching relays are extremely reliable and offer silent operation eliminating the humming, buzzing, heat and high failure rate associated with traditional contactors. Enclosures are available in NEMA 1 and NEMA 3R ratings with groundbars and knockouts where applicable. All panels include UL listed components and UL 508 A listed as an assembly. Now available in stainless steel cans.



Stand Alone Load Management Controller

4, 8 and 12 channel load management controllers. Monitors generator load with CT inputs for accurate regulating. Easy to program from front panel display, no PC required. Works with single and three phase circuits. Can be used for both managing and dropping loads during a utility outage. Will regulate low voltage circuits and AC circuits at the same time.



50 Amp Normally Closed Relay panels

Normally closed relays are designed to work with **Kohler®** or any generator, transfer switch or load shedding controller that uses normally closed signal output. Enclosures are available with 1, 2, 3, or 4 normally closed relays with 24, 120 Volt AC and 12 Volt DC coil. Enclosures are available in NEMA 1 and NEMA 3R ratings with groundbars and knockouts where applicable. All panels include UL listed components and UL 508 A listed as an assembly. Now available in stainless steel cans.



Residential

Make Two Wire Sense Transfer Switches work with Two Wire Start Generators

KGC-1 Converter Overview

The KGC-1 converts a 240 Volt sensing transfer switch to a 2 wire start transfer switch.

The interface provides the necessary voltage sensing, timing functions and switching circuits required for automatic operation. This allows a 2 wire start generator to be installed without having to change the transfer switch or wiring between the transfer switch and generator.

How it works

When utility power fails, the KGC-1 will pause for 5 seconds to ensure an actual power outage has occurred. The KGC-1 will then initiate a 2 wire generator start signal, starting up the generator. After a 15 second warm up period the KGC-1 will confi rm generator voltage is within acceptable levels and will then output the generator transfer signal.

When utility power is restored and remains stable for more than 2 minutes the controller will automatically transfer the load back to utility and signals the generator to turn off after cool down.



KGC-1 Transfer Switch Converter 240 Volt sensing Transfer Switch to Two Wire Start Generator Converter



Residential / Commercial

Stand Alone Universal Generator Load Management Panel with Latching Relays



LS-10114CX Self-contained 4 circuit load management panel with (4) 100 Amp magnetic latching relays



Easy to use 3 button programming module with LCD display



Includes dual CT's for precision Load Management control

Features

- Universal load shedding system works with ANY generator or transfer switch in managing 4 circuits from 20 to 100 Amp each and up to 2 HVAC systems using low voltage circuits
- Field programmable using installer programming tool
- Utilizes CT inputs for precision load management and to reduce the possibility of overloading generators
- Program adjustments include: generator available amperage, start up delay, amperage of each load

- Utilizes Magnetic Latching Relays eliminating the normal humming, chattering and heat associated with contactors
- Available in a variety of enclosure configurations including NEMA 1, NEMA 3R and Stainless Steel
- Compact flush mount version fits inside of studs and optional flush mount cover extends 3/4" past edge of can on all 4 sides for finished walls
- 5 year warranty on Magnetic Latching Relays

Specifications

Electrical	
Rated load at 277 Volts	120 Amps
Max. continuous operating AC voltage	480 Volts
Insulation resistance	1,000 M Ω at 500 Volts DC
Dielectric strength:	
Coil to contact	4,000 VAC for 1 min.
Across open contacts	2,500 VAC for 1 min.
Maximum switching current	120 Amps
Maximum switching power	27,700 VA
UL 508 A:	
Ith	160 Amps
Maximum hp at 240 Volts AC single phase	15 hp
IEC-60947:	
AC1 load	150 Amps
AC3 load 200-240 Volts	30 kW/105 Amps
Mechanical	
Connection terminal	Mechanical lugs
Operation temperature (°C)	-40 to +85
Enclosure type	NEMA 1, 3R
Warranty	5 years on Magnetic Latching Relays



Stand Alone Programmable Load Management Controllers LSC Series 4, 8 & 12 Load Management Controllers



LSC-04 4 Load Controller - Single Phase



LSC-08 8 Load Controller - Single or Three Phase



LSC-04X 4 Load Expander - Works with LSC-08

Features

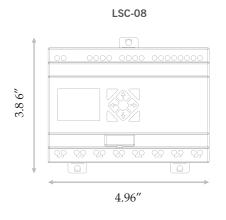
- · Robust programming features allow for customization to meet almost any application
- Uses CT's to read the generator's actual current and accurately manage loads to prevent overloading --CT's sold separately-
- Field programmable with front panel controls, no laptop or programming tool required
- · Works with any size of generator or transfer switch. Available in single and three phase models
- · Available in 4, 8, and 12 load configurations. Each load can be independently controlled or locked out
- Small dinrail mount footprint allows for installation in most transfer switches
- Easy to use, entire program can be set up in 5 minutes or less
- Works with low voltage and AC voltage circuits at the same time to maximize efficiency

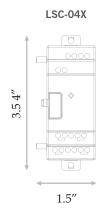
Specifications

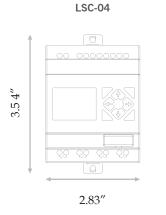
Input Voltage	120 VAC with 24v DC power supply
Number of control relays	LSC-04=4, LSC-08=8, LSC-08+04X=12
Display	4 line, 16 character LCD
Program interface	8 programming keys
Memory Type	Retentive flash memory
Analog Inputs	10-bit, 0-10v DC
Terminal Wire Size	26-16 gauge wire
Control Relay	SPST 8 Amp resistive load
Operation Temperature (°C)	-40 to +85
Module Mounting	Din-rail
Agency Approvals	cUL, CE, UL



Dimensions



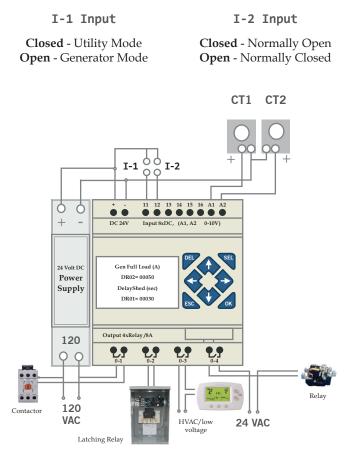






All Modules

Typical Control Devices



Program Settings

Generator Full Load Amps	0-1000 Amps
Start Up Delay	0-10,000 Sec
Full Load Amps Relay 1-12	0-1000 Amps
Delay Between Load Restore	0-10,000 Sec
In-Rush Delay	0-10,000 Sec
Active Open Circuit	On-Off
Active Closed Circuit	On-Off
Generator Actual Amps	Monitor Only
Relay Status	Monitor Only



Residential / Commercial Latching Relay Panels for LSC 08/12 Controllers

Features

- Directly connects to any Kohler®, Generac® or Cummins® load shedding module even the new Generac® low voltage board to control circuits from 20 to 100 Amps each
- Utilizes Magnetic Latching Relays, eliminating the normal humming, chattering and heat associated with contactors
- · Available in NEMA 01, NEMA 3R and Stainless Steel
- Available in 1, 2 and 4 relay configurations
- Compact Flush Mount version fits inside of studs and optional flush mount cover extends 3/4" past edge of can on all 4 sides for finished walls
- 5 year warranty on Magnetic Latching Relays



LS-101X4LX

Specifications

Electrical	
Rated load at 277 Volts	120 Amps
Max. continuous operating AC voltage	480 Volts
Insulation resistance	1,000 M Ω at 500 Volts DC
Dielectric strength:	
Coil to contact	4,000 VAC for 1 min.
Across open contacts	2,500 VAC for 1 min.
Maximum switching current	120 Amps
Maximum switching power	27,700 VA
UL 508 A:	
Ith	160 Amps
Maximum hp at 240 Volts AC single phase	15 hp
IEC-60947:	
AC1 load	150 Amps
AC3 load 200-240 Volts	30 kW/105 Amps
Mechanical	
Connection terminal	Mechanical lugs
Operation temperature (°C)	-40 to +85
Enclosure type	NEMA 1, 3R
Control input	120 VAC, 24 VAC or dry contacts
Warranty	5 years on Magnetic Latching Relays



Residential / Commercial 100 & 200 Amp Single Phase Magnetic Latching Relays



LS-101X1BX Single 100 Amp latching relay in 12x8x6" 3R enclosure



LS-201X1BX Single 200 Amp latching relay in 20x14x6" 3R enclosure

Features

- Universal load managing relays work with ANY generator, transfer switch or control circuit to manage loads
- Load dropping automatically removes loads when utility power is lost, and reconnects loads after a 5 minute delay when utility power is restored and needs no control board
- Utilizes Magnetic Latching Relays, eliminating the normal humming, chattering and heat associated with contactors
- Available in NEMA 3R enclosures and Stainless Steel
- 5 year warranty on Magnetic Latching Relays

Specifications

Electrical	100 Amp	200 Amp
Rated load at 277 Volts	120 Amps	200 Amps
Max. continuous operating AC voltage	480 Volts	480 Volts
Insulation resistance	1,000 M Ω at 500 Volts DC	1,000 MΩ at 500 Volts DC
Dielectric strenght		
Coil to contact	4,000 VAC for 1 min	4,000 VAC for 1 min
Across open contacts	2,500 VAC for 1 min	2,500 VAC for 1 min
Max. switching current	120 Amps	240 Amps
Max. switching power	27,700 VA	55,700 VA
UL 508 A		

Ith	160 Amps	240 Amps
Max. hp at 240 Volts AC single phase	15 hp	30 hp

IEC-60947

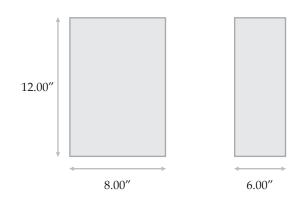
AC1 load	150 Amps	300 Amps
AC2 load 200-240 Volts	30 kW/105 Amps	60 kW/210 Amps

Mechanical

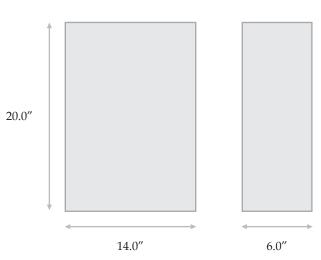
Connection terminal	Mechanical lugs	Mechanical lugs
Operation temperature (°C)	-40 to +85	-40 to +85
Enclosure type	NEMA 1, 3R	NEMA 3R
Control input	120 VAC, 24 VAC or dry contacts	120 VAC, 24 VAC or dry contacts
Warranty	5 years on Magnetic Latching Relays	5 years on Magnetic Latching Relays

Dimensions

LS-101X1BX



LS-201X1BX





Residential / Commercial 100 & 200 Amp 3 Phase Magnetic Latching Relays

Features

- · Universal load managing or load dropping relays work with ANY generator, transfer switch or control circuit to manage loads
- · Load dropping automatically removes loads when utility power is lost, and reconnects loads after a 5 minute delay when utility power is restored
- Utilizes Magnetic Latching Relays, eliminating the normal humming, chattering and heat associated with contactors
- Available in NEMA 3R enclosures and Stainless Steel
- 5 year warranty on Magnetic Latching Relays



LS-102X1BX 100 Amp 3 Phase **Latching Relay**



LS-202X1BX 200 Amp 3 Phase **Latching Relay**

Specifications

Warranty

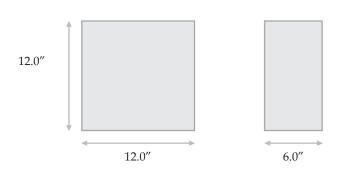
•		
Electrical	100 Amp	200 Amp
Rated load at 277 Volts	120 Amps	200 Amps
Max. continuous operating AC voltage	480 Volts	480 Volts
Insulation resistance	1,000 MΩ at 500 Volts DC	1,000 M Ω at 500 Volts DC
Dielectric strenght		
Coil to contact	4,000 VAC for 1 min	4,000 VAC for 1 min
Across open contacts	2,500 VAC for 1 min	2,500 VAC for 1 min
Max. switching current	120 Amps	240 Amps
Max. switching power	27,700 VA	55,700 VA
UL 508 A		
Ith	160 Amps	240 Amps
Max. hp at 240 Volts AC single phase	15 hp	30 hp
IEC-60947		
AC1 load	150 Amps	300 Amps
AC3 load 200-240 Volts	30 kW/105 Amps	60 kW/210 Amps
Mechanical		
Connection terminal	Mechanical lugs	Mechanical lugs
Operation temperature (°C)	-40 to +85	-40 to +85
Enclosure type	NEMA 1, 3R	NEMA 3R
Control input	120 VAC, 24 VAC or dry contacts	120 VAC, 24 VAC or dry contacts

5 years on Magnetic

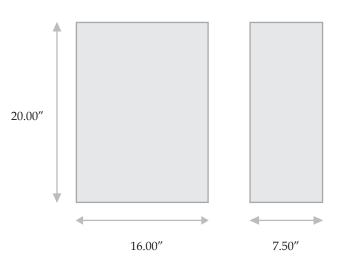
Latching Relays

Dimensions

LS-102X1BX



LS-202X1BX



5 years on Magnetic

Latching Relays



NCR-50A 2 Pole 50 Amp Normally Closed Relay Panels

Relays Available Individually or as Pre-Assembled Enclosures with (1), (2), (3) or (4) 50 Amp Normally Closed Relay(s)



NCR-50A 50 Amp Normally Closed Relay with box lugs



LS051X2EX Two 50 Amp Normally Closed Relays 10X10X04 NEMA 1 enclosure



LS051X3EX Three 50 Amp Normally Closed Relays 12X12X04 NEMA 1 enclosure



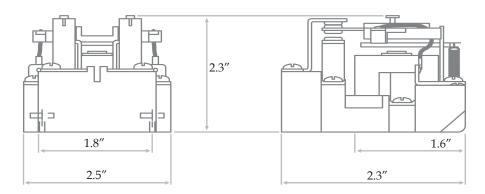
LS051X4EX Four 50 Amp Normally Closed Relays 15X15X06 3R enclosure

Features

- · Normally closed and normally open contacts for universal application
- · Available with one, two, three or four relays with termination blocks and grounding bars
- · Box Lug termination
- Small footprint, standard open frame configuration
- UL and CUL listed to 508 A standard as an assembly
- · Available as an individual component or mounted in NEMA 1 or 3R enclosures with grounding bar
- Low profile allows for flush mounting in standard 2x4" stud wall with optional flush mount cover for 1/2/3 relay versions



Dimensions

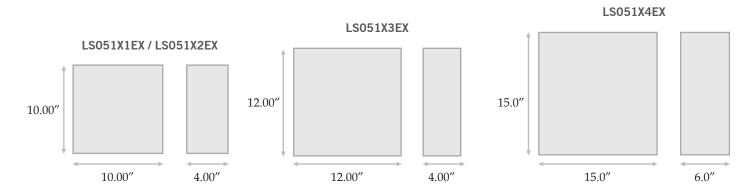


Specifications*

Pole Configuration	DPDT silver alloy contacts
Maximum Switching Voltage	250 Volts AC, 30 Volts DC
Maximum Amperage	50 Amps/250 Volts AC
Operating Voltage	80% rated voltage
Maximum Voltage	110% rated voltage
Contact Resistance	<100 MΩ
Operate Voltage (25 °C)	80% rated voltage
Release Voltage (25 °C)	30% rated voltage
Operating Temperature (°C)	-25 to +55
Normal Coil Power	10 VA
Dielectric Strength	2,500 VAC / 1 minute leakage current 1 ma
Terminal Connections	CU rated box lug terminals
Coil Connections	Screw terminal
Listings	UL/CUL

^{*} Specifications subject to change without notice

Enclosure Dimensions





Decades of experience and a diverse pool of knowledge are at your disposal. Your most difficult challenges today are our new products for tomorrow.

We can custom build almost any panel to meet your requirements

Fill in the blanks and then call us

If only there was a way to	, Installs would be much easier.
If it weren't for	, Generator installs would go much faster.
If only I had, I could sell a lot more generators.	
I think, would make a great add on item when selling generators.	
TRANE 2205 Industrial Park Rd Van Buren, AR 72956	

Lifan Power USA Contact us: 866-471-7464 lifanpowerusa.com