



ACLD-40

4kW AC Load Diversion Controller

Model Numbers

- ACLD-40

Available For

- Renewable Energy Systems Back-up Power

Works With

- MS-PAE Series
- MS-PE Series
- MMP Panel System
- MP Panel System

Warranty

- Three-year warranty standard. Five-year warranty if purchased with and installed on an MP or MMP panel.

INTRODUCING THE MOST SOPHISTICATED WAY TO ADD THREE-STAGE CHARGING TO YOUR AC COUPLED SYSTEM

What is an ACLD – AC Load Diversion Controller?

The ACLD monitors the battery voltage of a backup battery bank, and if the voltage rises to a predetermined level, the ACLD connects a diversion load of sufficient size, to the battery or energy source to prevent the battery voltage from increasing any further. The controller will continue to engage and disengage the load as often as necessary to prevent battery overcharge.

An AC Load Diversion controller is used to divert excess energy to an AC load in an effort to keep the battery bank that is connected to a back-up inverter from being overcharged, when used in an AC Coupled application.

ACLD-40 Features

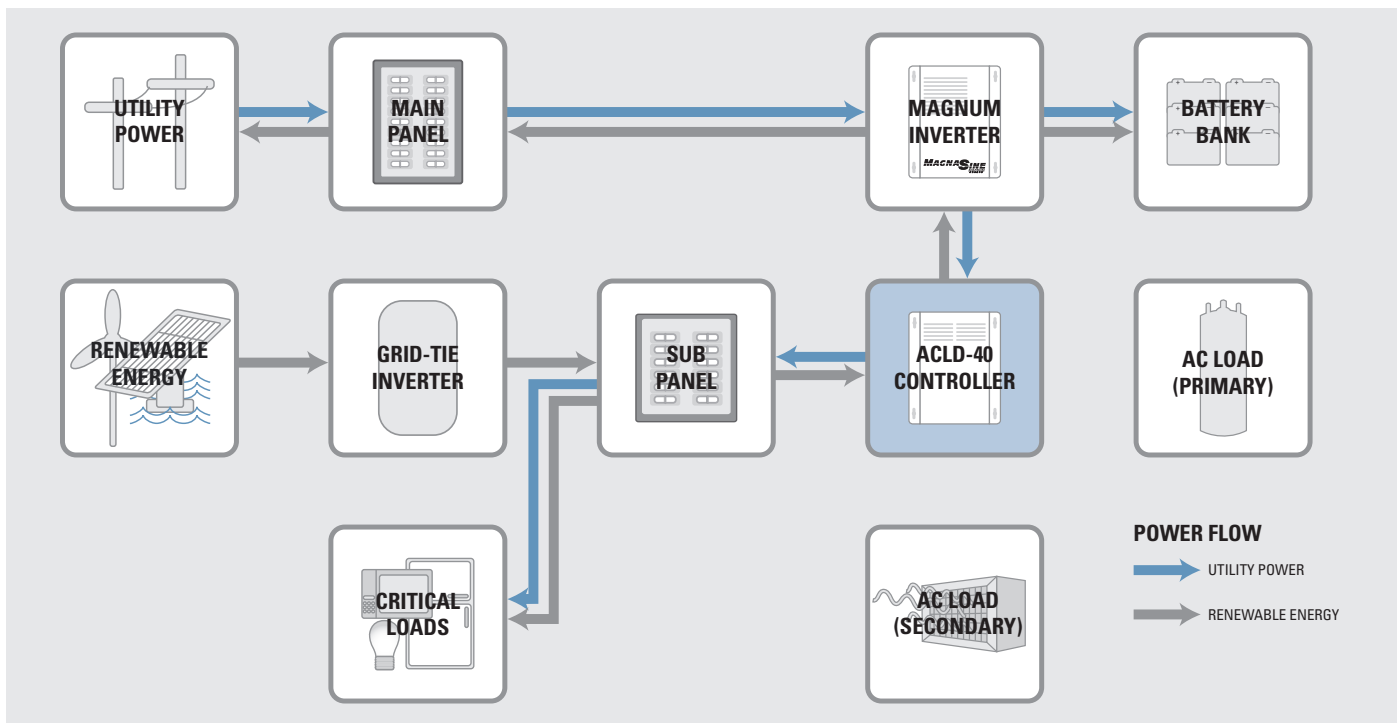
- Controls up to 4000 watts of excess power to prevent battery over-charge.
- Works with 12, 24, or 48 volt systems.
- Allows the use of common, resistive AC household loads instead of hard-to-find DC loads to divert excessive current.
- Easy access Inverter and Network ports.
- Standard RS485 MagNet protocol to communicate with Magnum inverters and remotes.
- Can utilize power generated from wind, solar, or hydro systems.
- Provides PWM (Pulse Width Modulation) voltage when powering diversion load to run load without flicker.

ACLD-40 SPECIFICATIONS

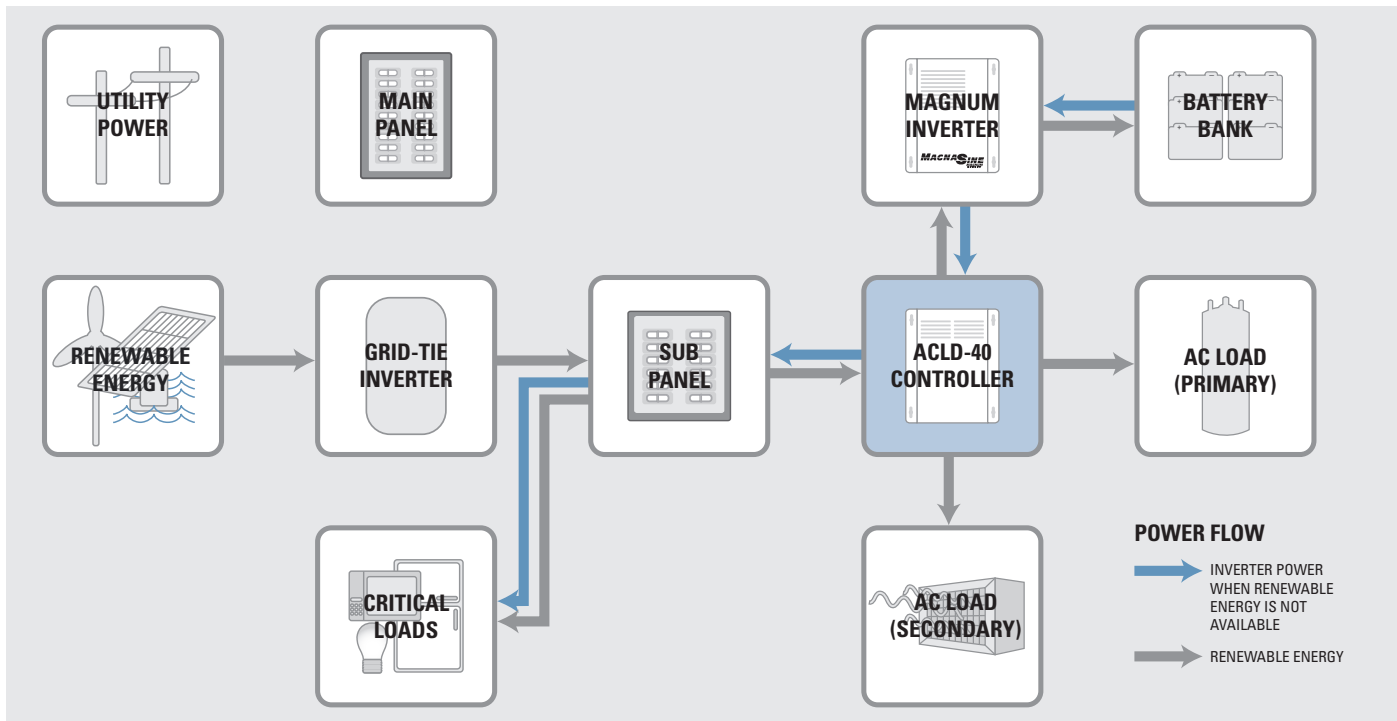
ACLD-40	
ELECTRICAL SPECIFICATIONS	
Frequency	50/60 Hz
Input voltage	240 VAC $\pm$ 10%
Output voltage	0 - 240 VDC
Continuous power	4000 VA
GENERAL FEATURES AND CAPABILITIES	
Listings	ETL Listed to UL 1741 - second edition and CSA C22.2 #107.1-01
Warranty	Three years (Five years when purchased with and installed on an MP/MMP system)
ENVIRONMENTAL SPECIFICATIONS	
Operating temperature	-20° C to +60° C (-4° F to 140° F)
Nonoperating temperature	-40° C to +70° C (-40° F to 158° F)
Operating humidity	0 to 95% RH non condensing
PHYSICAL SPECIFICATIONS	
Unit dimensions (w x h x d)	11.5" x 13.75" x 7" (29.2 cm x 34.9 cm x 17.8 cm)
Shipping dimensions (w x h x d)	13.6" x 15.8" x 9.3" (34.6 cm x 40.3 cm x 23.7 cm)
Mounting	Shelf (top or bottom up) or Wall (vents up)
Weight	20 lb (9.1 kg)
Shipping weight	23 lb (10.5 kg)
Max operating altitude	15,000' (4570 m)

Note: The ACLD-40 must be connected to a MS-PAE or MS-PE Series inverter and an external diversion load.

ACLD SYSTEM DIAGRAM WHEN UTILITY POWER IS AVAILABLE



ACLD SYSTEM DIAGRAM WHEN UTILITY POWER IS **NOT** AVAILABLE



OFFICES

2211 West Casino Road
Everett, Washington 98204 USA

425-353-8833

4467 White Bear Pkwy
St. Paul, MN 55110 USA

800-553-6418

www.magnumenergy.com

Priority of renewable power use:

- Critical loads
- Charging batteries
- Primary AC load diversion
- Secondary AC load diversion

Testing for specifications at 25° C.
Specifications subject to change without notice.