



## AC HELIX™



### Overview

The AC HELIX module is a building block which can be added to a FlexPower system allowing connection of **two independent AC sources** to the power system, providing full AC redundancy. In the event of loss of one AC source, the AC Helix module will automatically switch to the secondary AC power source without disruption to give critical security infrastructure an enhanced layer of system protection.

### System Features

#### Dual AC Inputs

- Allows connection to two independent AC branch circuits

#### Power rating

- AH1: 120VAC 50-60Hz
- AH2: 230VAC 50-60Hz
- 10A Maximum

### System Functions

#### Redundant input power

- Two AC inputs
- Single AC voltage output
- Immediate switchover on AC loss

#### Lifetime Warranty

### AC HELIX

To add AC HELIX into the FPO, HLX, RGx series model number, insert " / H " after the power supply call out

**FLEXPOWER® FPO150 /H -2M8NL4E2**

**HELIX™ HLX150 /H -2M8NL4E2**

**GEMINI™ RGL150 /H -2M8NZ**

### Ordering

Module PN	Description
AH1	120 VAC Input Helix Module
AH2	230 VAC Input Helix Module

The AH1 and AH2 modules can be **added** to most LifeSafety Power wallmount/rackmount configurations for a greater level of system protection.

Contact factory tech support for more information.

### Specifications

<b>Input Power</b>	AH1 Input 100-120 VAC 50/60 Hz, 10 amps max AH2 Input 220-240 VAC 50/60 Hz, 10 amps max DC Input 12-26 VDC, 100mA max Terminal Strip Connections
<b>Output Power</b>	Redundant AC Output 100-240VAC (matches inputs), 10A max Terminal Strip Connection
<b>Indicators / Supervision</b>	Primary AC Input (Red) Secondary AC Input (Red)
<b>Regulatory Compliance</b>	UL294 / ULC S318 / ULC S319 CE, FCC
<b>Module Dimensions</b>	6.00"H x 4.00"W x 2.20"D Weight: 1 lb.

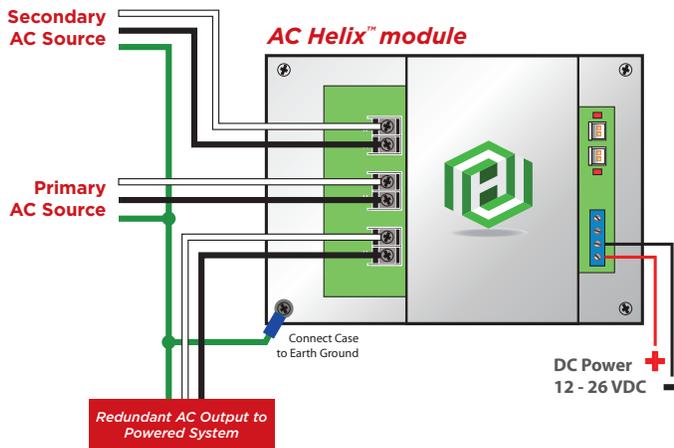
### Operation

The AC Helix module accepts primary and secondary AC input sources. Under normal conditions, the primary AC source is passed to the equipment being powered. When the AC Helix detects that the primary AC source has been compromised, the output transfers to use the secondary AC source for the powered equipment. When primary AC power is restored, the output transfers back to the primary source.

The primary and secondary AC inputs each have an on-board LED which lights when voltage is present. Connectors for external LED indicators are also available.

The AC Helix requires a DC voltage source of 12-26V to power the internal circuitry.

### AC HELIX Wiring



### AC HELIX Configuration Example

Rackmount



RGL250/250/H-2D8

### AC HELIX LIMITATIONS

Due to the nature of this product and its intended applications, the limitations and conditions of installation of the AC Helix module must be fully understood by the system planner & installer. Please thoroughly read the AC HELIX installation manual and understand the following sections before using the AC Helix module.

#### Redundancy

The AC Helix module adds a layer of redundancy over the typical FPO power supply. Only the AC source is redundant - by itself, the AC Helix module does not provide redundancy to the DC power system. Also, the AC Helix cannot overcome any problems in the field wiring or load devices - if an overcurrent trips the circuit breaker of the primary source, the circuit breaker of the secondary AC source may also trip from this overcurrent.

#### Primary AC Connections

The AC Helix requires two independent AC sources to operate correctly. For maximum protection, these sources should come from two separate sources into the protected building.

## lifesafetypower.com

(888) 577-2898  
info1@lifesafetypower.com

Specifications subject to change without notice.

© 2022 LifeSafety Power. All rights reserved. LifeSafety Power and FlexPower are registered trademarks of LifeSafety Power. All other trademarks and copyrights are the property of their respective owners.

P01-962A 07/22

#### LifeSafety Power

10027 S. 51st Street, Suite 102  
Phoenix, AZ 85044 USA