



Type(s)

Project

Date

Notes

## GENERAL INFORMATION

Unison DRd power modules are designed for use in all DRd enclosures. Whether you need forward-phase or reverse-phase SCR dimming, relay control, or specialty power control Unison DRd has you covered.

Most modules provide two circuits of control for a wide range of applications. All modules feature modular installation and removal, fully magnetic circuit breakers, and rock-solid construction.

### APPLICATIONS

- Tungsten lighting
- Non-dim loads
- Moving lights, fog machines, and powered effects
- Electronic transformers
- Electronic LED power supplies
- 2-wire Fluorescent ballast
- 4-wire Fluorescent ballast
- Quartz lighting
- Neon lighting
- Cold Cathode lighting

### FEATURES

- High-density modular assembly
- Die-cast aluminum chassis
- Hydraulic-magnetic circuit breakers
- Temperature sensors

## SPECIFICATIONS

### GENERAL

- Rated for continuous duty at 100% of rated load
- Modules rated for 5 A, 15 A, and 20 A circuits

### PHYSICAL

- Modular plug-in assemblies
- Cast aluminum chassis, finished with textured epoxy paint
- Keyed to prevent insertion in inappropriately rated enclosure positions

### REGULATORY AND COMPLIANCE

- cULus Listed for use in Unison DRd Dimming Enclosure

## SPECIFICATIONS (CONTINUED)

### CIRCUIT BREAKERS

- Hydraulic-magnetic to eliminate nuisance tripping
- 20x inrush current rating
  - (PhaseAdept and HELV/AELV modules rated at 10x inrush)
- 125%, 10–120 seconds, must-trip rating
- Rated for 100% switching duty applications

### SHORT CIRCUIT RATINGS

- 65,000 A Short Circuit Current Rating (SCCR)
- Modules withstand hot-patching of cold loads up to full rating

### POWER DEVICE

- Sealed, patented assembly
- Field-replaceable with screwdriver
  - Excludes PhaseAdept and ELV modules
- Two back-to-back SCRs per circuit for AD/HD modules
- Per-circuit LED indicators
- Mechanical held air gap relay
- Integral bonded heatsink
- Integral temperature sensor

### FILTERING

- High quality toroidal choke filters (see module chart for rise times)

### DIMMING PERFORMANCE

- Dimming of 2 and 4-wire fluorescent ballast is dependent on lamp ballast combination. 4-wire fluorescent control requires optional 0–10 V control card
- Phase dimming performance for LED lamps varies considerably depending on the manufacturer and model. Visit <http://www.etcconnect.com/compatibility/> for details on a variety of specific lamps and information on how to send samples to ETC for testing
- PhaseAdept (LED) modules provide forward- or reverse-phase dimming and are compatible with any ETC Unison DR, Unison DRd or Sensor enclosure, including legacy products
- ELV modules provide forward- or reverse-phase dimming and are compatible with Unison DRd enclosures



Unison 240/277 V Series

Model Number Key

**Module Type** - Identifies the function of the module: AD/HD (Dimmer), AR/HR (Relay), ACC/HCC (Constant), ALED/HLED (PhaseAdept), AELV/HELV (Electronic Low Voltage). H series modules support 240 V, A series modules support 277 V

**NUMBER** - Identifies the rated max current per circuit within the module; for example, a HD20 module provides dimming for 20 A circuits

**AFM** - Module body without electronics for rack slots without branch circuits; ensures proper air flow and rack cooling

Dimmer Modules

MODEL	CURRENT-WATTAGE-RISE TIME	CIRCUITS	RACK SLOTS	EFFICIENCY	MAX BTU/HR WATTS/CHANNEL	WT / SHIP WT
HD15 (240 V)	15 A / 3.6 kW / 165 µs	2	1	96.9%	380 BTU / 112 W	2.3 kg / 3.1 kg
HD20 (240 V)	15 A / 3.6 kW / 165 µs	2	1	96.1%	474 BTU / 140 W	2.3 kg / 3.1 kg
AD15 (277 V)	15 A / 4.1 kW / 165 µs	2	1	96.9%	380 BTU / 112 W	2.3 kg / 3.1 kg
AD20 (277 V)	15 A / 5.5 kW / 165 µs	2	1	96.1%	474 BTU / 140 W	2.3 kg / 3.1 kg

Relay Modules

MODEL	CURRENT-WATTAGE	CIRCUITS	RACK SLOTS	EFFICIENCY	MAX BTU/HR WATTS/CHANNEL	WT / SHIP WT
HR15 (240 V)	15 A / 3.6 kW	2	1	>99.0%	<10 BTU / <4 W	1.2 kg / 1.6 kg
AR15 (277 V)	15 A / 4.1 kW	2	1	>99.0%	<10 BTU / <4 W	1.2 kg / 1.6 kg
AR20 (277 V)	20 A / 5.5 kW	2	1	>99.0%	<10 BTU / <4 W	1.2 kg / 1.6 kg

Constant Modules

MODEL	CURRENT-WATTAGE	CIRCUITS	RACK SLOTS	EFFICIENCY	MAX BTU/HR WATTS/CHANNEL	WT / SHIP WT
HCC15 (240 V)	15 A / 3.6 kW	2	1	>99.0%	<10 BTU / <4 W	1.2 kg / 1.6 kg
ACC15 (277 V)	15 A / 4.1 kW	2	1	>99.0%	<10 BTU / <4 W	1.2 kg / 1.6 kg
ACC20 (277 V)	15 A / 5.5 kW	2	1	>99.0%	<10 BTU / <4 W	1.2 kg / 1.6 kg

Low Voltage Line Dimming Modules

MODEL	CURRENT/WATTAGE	CIRCUITS	RACK SLOTS	EFFICIENCY	MAX BTU/HR WATTS/CHANNEL	WT / SHIP WT
HELV5 (240 V)	5 A / 1.2 kW	2	1	96.5%	119 BTU / 35 W	1.1 kg / 1.5 kg
AELV5 (277 V)	5 A / 1.4 kW	2	1	96.5%	119 BTU / 35 W	1.1 kg / 1.5 kg
ALED5 (277 V)	5 A / 1.4 kW	2	1	98.6%	61 BTU / 18 W	1.1 kg / 1.5 kg

**Note:** HELV5, AELV5, and ALED5 modules do not support use with magnetic transformers.

Air Flow Modules

MODEL	CURRENT/WATTAGE	CIRCUITS	RACK SLOTS	EFFICIENCY	MAX BTU/HR WATTS/CHANNEL	WT / SHIP WT
AFM	-	0	1	-	-	1.5 lb / 2.4 lb

