



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
- Fully magnetic circuit breakers
- Temperature Unison DRds

REGULATORY AND COMPLIANCE

- cULus Listed for use in Unison DRd Dimming Enclosure

SPECIFICATIONS

GENERAL

- Rated for continuous duty at 100% of rated load
- 1.4 kW, 2.3 kW, 3.4 kW, and 5.7 kW circuits

PHYSICAL

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

CIRCUIT BREAKERS

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

SHORT CIRCUIT RATINGS

- 22,000 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 D15/D20 modules
- Per-circuit LED indicators
- Mechanical held air gap relay
- Integral bonded heatsink
- Integral temperature sensor

FILTERING

- High quality toroidal 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 0–10V control card
- Phase dimming performance for LED lamps varies considerably depending on the manufacturer and model. Visit <http://www.etccconnect.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

MODULE CHART

Model Number Key

Module Type - Identifies the function of the module: ED (Dimmer), ER (Relay), ECC (Constant), ELED (PhaseAdept), EELV (Electronic Low Voltage)

NUMBER - Identifies the rated max current per circuit within the module; for example, a ED10 module provides dimming for 10A circuits

R - Module provides per-circuit RCD circuit breaker protection

N - Module provides Neutral Disconnect per-circuit

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
ED6	6 A - 1.4 kW - 400 μ s	2	1	96.5%	99 BTU / 29 W	2.3 kg / 3.1 kg
ED6N	6 A - 1.4 kW - 400 μ s	2	1	96.5%	99 BTU / 29 W	2.3 kg / 3.1 kg
ED6R	6 A - 1.4 kW - 400 μ s	2	1	96.5%	99 BTU / 29 W	2.3 kg / 3.1 kg
ED10	10 A - 2.3 kW - 400 μ s	2	1	96.5%	219 BTU / 64 W	2.3 kg / 3.1 kg
ED10N	10 A - 2.3 kW - 400 μ s	2	1	96.5%	219 BTU / 64 W	2.3 kg / 3.1 kg
ED10R	10 A - 2.3 kW - 400 μ s	2	1	96.5%	219 BTU / 64 W	2.3 kg / 3.1 kg
ED15	15 A - 3.4 kW - 225 μ s	2	1	96.5%	400 BTU / 117 W	2.3 kg / 3.1 kg
ED15E	15 A - 3.4 kW - 400 μ s	2	1	96.5%	400 BTU / 117 W	2.5 kg / 3.1 kg
ED15N	15 A - 3.4 kW - 400 μ s	2	1	96.5%	400 BTU / 117 W	2.5 kg / 3.1 kg
ED15R	15 A - 3.4 kW -400 μ s	2	1	96.5%	400 BTU / 117 W	2.3 kg / 3.1 kg
ED25	25 A - 5.7 kW - 225 μ s	2	1	96.5%	854 BTU / 250 W	2.3 kg / 3.1 kg
ED25N	25 A - 5.7 kW - 350 μ s	2	1	96.5%	854 BTU / 250 W	2.3 kg / 3.1 kg
ED25R	25 A - 5.7 kW - 350 μ s	2	1	96.5%	854 BTU / 250 W	2.3 kg / 3.1 kg

Relay Modules

MODEL	CURRENT/WATTAGE	CIRCUITS	RACK SLOTS	EFFICIENCY	MAX BTU/HR WATTS/CHANNEL	WT / SHIP WT
ER6	6 A / 1.4 kW	2	1	>99.0%	<10 BTU / <4 W	1.2 kg / 1.8 kg
ER6N	6 A / 1.4 kW	2	1	>99.0%	<10 BTU / <4 W	1.2 kg / 1.8 kg
ER6R	6 A / 1.4 kW	2	1	>99.0%	<10 BTU / <4 W	1.2 kg / 1.8 kg
ER10	10 A / 2.3 kW	2	1	>99.0%	<10 BTU / <4 W	1.2 kg / 1.8 kg
ER10N	10 A / 2.3 kW	2	1	>99.0%	<10 BTU / <4 W	1.2 kg / 1.8 kg
ER10R	10 A / 2.3 kW	2	1	>99.0%	<10 BTU / <4 W	1.2 kg / 1.8 kg
ER15	15 A / 3.4 kW	2	1	>99.0%	<10 BTU / <4 W	1.2 kg / 1.8 kg
ER15N	15 A / 3.4 kW	2	1	>99.0%	<10 BTU / <4 W	1.2 kg / 1.8 kg
ER15R	15 A / 3.4 kW	2	1	>99.0%	<10 BTU / <4 W	1.2 kg / 1.8 kg
ER25	25 A / 5.7 kW	2	1	>99.0%	<10 BTU / <4 W	1.2 kg / 1.8 kg
ER25N	25 A / 5.7 kW	2	1	>99.0%	<10 BTU / <4 W	1.2 kg / 1.8 kg
ER25R	25 A / 5.7 kW	2	1	>99.0%	<10 BTU / <4 W	1.2 kg / 1.8 kg

MODULE CHART CONTINUED

Constant Modules

MODEL	CURRENT/WATTAGE	CIRCUITS	RACK SLOTS	EFFICIENCY	MAX BTU/HR WATTS/ CHANNEL	WT / SHIP WT
ECC6	6 A / 1.4 kW	2	1	>99.0%	<10 BTU / <4 W	1.1 kg / 1.6 kg
ECC6N	6 A / 1.4 kW	2	1	>99.0%	<10 BTU / <4 W	1.1 kg / 1.6 kg
ECC10	10 A / 2.3 kW	2	1	>99.0%	<10 BTU / <4 W	1.1 kg / 1.6 kg
ECC10N	10 A / 2.3 kW	2	1	>99.0%	<10 BTU / <4 W	1.1 kg / 1.6 kg
ECC15	15 A / 3.4 kW	2	1	>99.0%	<10 BTU / <4 W	1.1 kg / 1.6 kg
ECC15R	15 A / 3.4 kW	2	1	>99.0%	<10 BTU / <4 W	1.1 kg / 1.6 kg
ECC25	25 A / 5.7 kW	2	1	>99.0%	<10 BTU / <4 W	1.1 kg / 1.6 kg

Low Voltage Line Dimming Modules

MODEL	CURRENT/WATTAGE	CIRCUITS	RACK SLOTS	EFFICIENCY	MAX BTU/HR WATTS/ CHANNEL	WT / SHIP WT
ELED6	6 A / 1.4 kW	2	1	98.59%	61 BTU / 18 W	1.1 kg / 1.6 kg
ELED6N	6 A / 1.4 kW	2	1	98.59%	61 BTU / 18 W	1.1 kg / 1.6 kg
ELED6R	6 A / 1.4 kW	2	1	98.59%	61 BTU / 18 W	1.1 kg / 1.6 kg
EELV6	6 A / 1.4 kW	2	1	96.50%	287 BTU / 84 W	1.1 kg / 1.6 kg
EELV6N	6 A / 1.4 kW	2	1	96.50%	287 BTU / 84 W	1.1 kg / 1.6 kg
EELV6R	6 A / 1.4 kW	2	1	96.50%	287 BTU / 84 W	1.1 kg / 1.6 kg

Note: ELED6 and EELV6 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



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