



## GENERAL INFORMATION

The Standard Dimmer Module is designed for use in Unison Dimming Series Enclosures. Standard Dimmer Modules provide cost-effective digital forward phase angle dimming for standard loads such as incandescent, low voltage, quartz, neon, cold-cathode and 2 and 4-wire fluorescent ballasts. The patented, high-density, dual modules feature modular installation and removal, fully magnetic circuit breakers and standard or enhanced risetime toroidal filters.

### APPLICATIONS

- Designed for use in 230V Unison DRd rack enclosures
- Incandescent lighting
- Low voltage lighting
- Quartz lighting
- Neon lighting
- Cold Cathode lighting
- 2-wire Fluorescent ballast
- 4-wire Fluorescent ballast (with FLO Option Board)
- DALI ballast (with DALI Option Board)

### FEATURES

- Two 3K dimmers per module or one 5K dimmer per module
- Standard (225 $\mu$ S) or Enhanced(350 $\mu$ S) risetime toroidal filters
- High-density modular assembly
- Die-cast aluminum chassis
- Fully magnetic circuit breakers

### GENERAL

- CE Marked

## ORDERING INFORMATION

### 230V CE Standard Modules

MODEL	DESCRIPTION
ED6	Dual 1.3K 400 $\mu$ S Dimmer Module
ED10	Dual 2.3K 400 $\mu$ S Dimmer Module
ED15	Dual 3K 225 $\mu$ S Dimmer Module
ED15E	Dual 3K 400 $\mu$ S Dimmer Module
ED25	Single 5K 225 $\mu$ S Dimmer Module
ED25E	Single 5K 350 $\mu$ S Dimmer Module

### Compatible Systems

MODEL	DESCRIPTION
DRd6-12-230	230V CE 6 module rack enclosure (12 circuits)
DRd12-24-230	230V CE 12 module rack enclosure (24 circuits)

\*Rack enclosures also available for 100-120, 240 and 277 Volt applications

## SPECIFICATIONS

## GENERAL

- Listed for continuous duty at 100% of rated load
  - ED15/ ED15E – Dual 3kW
  - ED25/ ED25E – Single 5kW

## PHYSICAL

- Modular plug-in assemblies
- Cast aluminum chassis, finished with textured epoxy paint

## CIRCUIT BREAKERS

- Fully magnetic to eliminate nuisance tripping
- 20x inrush current rating
- 125%, 10-120 seconds, must-trip rating
- Rated for 100% switching duty applications

## ELECTRICAL RATINGS

- 22,000 amp 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
- Two back-to-back SCRs per circuit
- One control LED per circuit
- 4000V isolation between control and power components
- Integral bonded heatsink
- Integral temperature sensor

## FILTERING

- High quality toroidal filters
  - 225 $\mu$ S rise time - Standard 3K modules\*
  - 400 $\mu$ S rise time - Enhanced 3K modules\*
  - 225 $\mu$ S rise time - Standard 5K modules\*
  - 350 $\mu$ S rise time - Enhanced 5K modules\*

\*Risetime measured at full load, at worst case firing angle (about 50%), from 10-90% of output wave form

## DIMMER RANGE

- Incandescent, low voltage dimming range 100-0%
- Dimming range of 2 and 4-wire fluorescent ballast is dependent on lamp ballast combination. Contact ETC for range verification
- Sizing of Neon transformer used in dimming applications should be 1.5x greater than size used in non-dimming application

## PHYSICAL

## Module Dimensions\*

MODEL	HEIGHT		WIDTH		DEPTH	
	inches	mm	inches	mm	inches	mm
ALL TPYES	1.5	38	11.8	300	5.7	145

## Module Weights\*

MODEL	WEIGHT		SHIPPING WEIGHT	
	lbs	kgs	lbs	kgs
ALL TYPES	5.5	2.3	6.9	3.1

\*Weights and dimensions typical

## Maximum BTU Production per module

MODEL	BTUS	WATTS	EFFICIENCY
ALL TYPES	474	140	96.1%

These values should be provided to a qualified HVAC design engineer, along with dimmer quantities, types and dimmer room dimensions, to calculate dimmer room air handling requirements.

Dimmer room HVAC systems must at all times maintain the specified ambient temperature **at the dimmer rack**. Dimming systems operating within 10°F of the upper or lower temperature limits must strictly follow installation and operation guidelines to operate reliably.

## SCR Rating

MODULE	15/25 AMP
Single cycle peak surge current	625 amp
Half cycle peak surge current	1620 amp
Transient over voltage	600V



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