



C21 DIMMING MODULES



C21 Dimming modules represent the next step in future proofing a new or existing dimming system. With a choice of a wide range of modules to fit any application, from Convention dimmers, Power through bypass modules to state-of-the-art IGBT dimming. C21 Modules are interchangeable within a C21 rack allowing you complete flexibility of circuit allocation.

For modern installations, Power Through bypass modules provide a 350uS risetime Silicon Controlled Rectifier (SCR) dimmer in conjunction with a mechanical bypass relay for each dimmer. Each module has two individual recess mounted switches that allow for a manual switch between Dimmer or Relay so that there is never a mistake about how your system is set up.

IGBT dimmers provide effortless silent dimming, ensuring “filament sing” does not distract from the performance. While simple Non dim modules provide constant power where it is needed.



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BENEFITS

- Future proofing your lighting system for both incandescent and solid state or moving lights
- Flexible loading – when the lighting plot is consistently changing due to performance needs allowing for “mixed” circuiting between dimmed or relay controlled circuit
- When using a hybrid lighting plot of traditional fixed and moving lights or LED luminaires that need a relay controlled straight power circuit
- Any application that utilizes both standard forward phase SCR dimming and contact relay straight power

FEATURES

- Plug-in Modular Dimmer System
- IGBT, SSR, and Non-dim modules may be mixed in the same rack
- Dual 2.4kW & Single 5kW IGBT fully reporting dimmer modules with 1000Qs rise time (switchable between leading and trailing edge)
- Dual 20 amp SSR Dimmer Modules with 350Qs, 500Qs, or 800Qs filter chokes
- Single 6kW and 12kW SSR Dimmer Modules
- Contactor modules provide switched On/Off control for a wide range of loads
- Power Through modules offer:
 - On/Off relay activation through the control system
 - Dim/Non Dim switch on the face of each module
 - Power Thru modules are dual density
 - Dual back-to-back SCRs for each circuit
 - 350QS rise-time toroidal filters
 - High-density modular assembly front of module (set to DIM or ND)
- All dual and single modules are available with optional status reporting (Standard on IGBT modules, not available for Power Through Modules)
- Circuit Breaker design for improved trip indication and smooth faceplate, eliminating breaker damage in touring applications
- All dimmers are fully rated
- All circuit breakers are fully magnetic and designed for improved trip indication
- ETL and cETL listed



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POWER

Operating voltage	120V
Circuit protection	Magnetic circuit breakers

DIMMER MODULES

	IGBT	POWER THRU	SSR
Connection	plug-in	plug-in	plug-in
Power	Dual 2.4kW Single 5kW	Dual 1.8kW Dual 2.4kW	Dual 1.8kW Dual 2.4kW Single 6kW Single 12kW
Rise time	1,000µs at 2.4/5kW	350µs at 1.8/2.4kW 500µs at 1.8/2.4kW	300µs at 1.8kW 350µs at 2.4/6/12kW 450µs at 1.8kW 500µs at 2.4kW 700µs at 1.8kW 800µs at 2.4kW
Reporting	Standard	Option	Option
Modes	Forward / reverse phase dimmer	Forward phase dimmer, Bypass, or Non-Dim,	Forward phase dimmer

NON-DIM MODULES

	CONTACTOR	CONSTANT
Connection	plug-in	plug-in
Power	Dual 1.8kW Dual 2.4kW Single 6kW	Dual 1.8kW Dual 2.4kW Single 6kW
Switching	Mechanical relay	Always on
Reporting	Option	Option

PHYSICALS

Construction	Heavy duty formed aluminium with heat sink
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ENVIRONMENT

	°C	°F
Ambient temperature	0-40	32-104
Humidity	0% - 95% non-condensing	

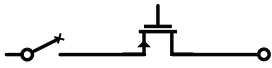
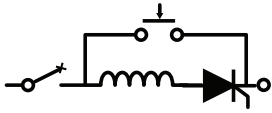

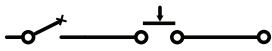
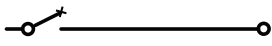
DIMENSIONS (L X W X H)

	mm	in
Module	45 x 13 x 8.5	17.71 x 5.11 x 3.34

WARRANTY & APPROBATIONS

Warranty	2 years
Approvals / Listings	UL / cUL recognized and ETL / cETL listed

C21 DIMMING MODULES

IGBT DIMMER MODULES		ORDER CODE
C21 2.4kW Dual Reporting IGBT Dimmer Module, 1000µs Rise Time	76592	
C21 5.0kW Single Reporting IGBT Dimmer Module, 1000µs Rise Time	76593	
NON DIM POWER THRU / BYPASS MODULES		ORDER CODE
C21 Dual 1.8kW Dual Dim/Non-Dim /BP module with 350µs	76551BPR	
C21 Dual 1.8kW Dual Dim/Non-Dim /BP module with 500µs	76552BPR	
C21 Dual 1.8kW Dual Dim/Non-Dim /BP module with 350µs, Reporting	76556BPR	
C21 Dual 1.8kW Dual Dim/Non-Dim /BP module with 500µs, Reporting	76557BPR	
C21 Dual 2.4kW Dual Dim/Non-Dim /BP module with 350µs	76562BPR	
C21 Dual 2.4kW Dual Dim/Non-Dim /BP module with 500µs	76563BPR	
C21 Dual 2.4kW Dual Dim/Non-Dim /BP module with 350µs, Reporting	76567BPR	
C21 Dual 2.4kW Dual Dim/Non-Dim /BP module with 500µs, Reporting	76568BPR	
STANDARD MODULES		
C21 1.8kW Dual SSR Dimmer Module, 300µs Toroidal Choke, 120V	76551	
C21 1.8kW Dual SSR Dimmer Module, 450µs Toroidal Choke, 120V	76552	
C21 1.8kW Dual SSR Dimmer Module, 700µs Toroidal Choke, 120V	76553	
C21 2.4kW Dual SSR Dimmer Module, 350µs Toroidal Choke, 120V	76562	
C21 2.4kW Dual SSR Dimmer Module, 500µs Toroidal Choke, 120V	76563	
C21 2.4kW Dual SSR Dimmer Module, 800µs Toroidal Choke, 120V	76564	
C21 6.0kW Single SSR Dimmer Module, 350µs Toroidal Choke, 120V	76574	
C21 12.0kW Single SSR Dimmer Module, 350µs Toroidal Choke, 120V	76585	
CONTACTOR MODULES (NON-DIM)		ORDER CODE
C21 1.8kW Dual Contactor Non-Dim Module, 120V	76555	
C21 2.4kW Dual Contactor Non-Dim Module, 120V	76566	
C21 2.4kW Dual Reporting Non-Dim/Contactor Module, 120V	76571	
C21 6.0kW Single Non-Dim/Contactor Module, 120V	76578	
C21 6.0kW Single Reporting Non-Dim/Contactor Module, 120V	76583	
CONSTANT MODULES (NON-DIM)		ORDER CODE
C21 1.8kW Dual Constant Module, 120V	76554	
C21 2.4kW Dual Constant Module, 120V	76565	
C21 2.4kW Dual Reporting Constant Module, 120V	76570	
C21 6.0kW Single SSR Constant Module, 120V	76577	



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SPECIAL FUNCTION MODULES		ORDER CODE
C21 2.4kW Dual SSR/Non Dim Module, 350uS Toroidal Choke (Left), 120V		76591-0001
C21 2.4kW Dual SSR/Non Dim Module, 350uS Toroidal Choke (Right), 120V		76591-0002
C21 2.4kW Single 3 Wire Fluorescent Module, 120V with Reporting		76591-0010
C21 2.4kW Single 3 Wire Fluorescent Module, 120V		76591-0012
FILLER MODULES		ORDER CODE
C21/EC21 Module Filler Blank		76588
C21/EC21 Row Filler Blank		76697

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Ref: 76551-100-00