



EC21 DIMMING MODULES



EC21 dual reporting module



EC21 dual module
with RCD option

The EC21 dimmer rack was developed in response to in-depth market research from key customers and consultants. The EC21 has set an unprecedented industry first by providing the ability to install 96 2.5kW IGBT dimmers in a single rack – greatly increasing dimming density for IGBT users.

The EC21 dimming system allows users to freely mix dimmers of any type (both IGBT and conventional modules) within a single rack. All dual and single dimmer and contactor modules may be ordered with our optional dimmer status reporting electronics, providing system operators with a wide range of dimmer information.

All Dimmer status and rack configuration is available via any Web Browser connected to the lighting network. EC21 dimmer systems feature a universal 24 or 48-module rack design that provides support for 90-260 volt operation and are CE marked.



EC21 DIMMING MODULES

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
- GBT and Thyristor modules may be mixed in the same rack
- Dual 2.5kW and Single 5kW IGBT dimmers with 650Qs rise time
- Dual 3kW and 5kW Thyristor Dimmer Modules with 200Qs or 435Qs filter chokes
- Single 10kW Thyristor modules available with 200Qs or 435Qs filter chokes
- Contactor modules provide switched control for a wide range of loads
- All dual and single modules are available with optional status reporting (Standard on IGBT modules)
- Power Through modules offer:
 - On/Off relay activation through the control system
 - Dim/Non Dim Switch on the face of each module
 - Power Through modules are dual density
 - Dual back-to-back SCRs for each circuit - 200QS risetime toroidal filters
 - High-density modular assembly front of module (set to DIM or ND).
- All Single and Dual Dimmer modules are available with SP, SPN, and RCD circuit breakers
- CE Marked



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POWER

Operating voltage	2300V
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 dim- mer

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)

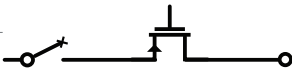
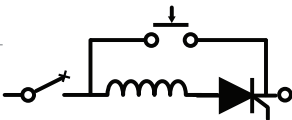
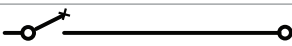
	mm	in
Module	45 x 13 x 8.5	17.71 x 5.11 x 3.34

WARRANTY & APPROBATIONS

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

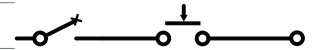


EC21 DIMMING MODULES

IGBT DIMMER MODULES		ORDER CODE
EC21 230VAC Dual 2.5kW IGBT Module SP		76674
EC21 230VAC Dual 2.5kW IGBT Module RCBO		76675
EC21 230VAC Single IGBT Module 5.0kW SP		76676
EC21 230VAC Single IGBT Module 5.0kW RCBO		76677
		
POWER THRU BYPASS MODULES		ORDER CODE
EC21 Dual 3kW Dim/BP module with RCBO 250Qs.		76603BP
EC21 Dual 3kW Dim/BP module with RCBO 400Qs.		76606BP
EC21 Dual 3kW Dim/BP module with RCBO 250Qs with Reporting.		76609BP
EC21 Dual 3kW Dim/BP module with RCBO 400Qs with Reporting		76612BP
EC21 Dual 5kW Dim/BP module with RCBO 250Qs.		76615BP
EC21 Dual 5kW Dim/BP module with RCBO 400Qs.		76618BP
EC21 Dual 5kW Dim/BP module with RCBO 250Qs with Reporting		76621BP
EC21 Dual 5kW Dim/BP module with RCBO 400Qs with Reporting		76624BP
NON-DIM POWER THRU BYPASS MODULES		ORDER CODE
EC21 Dual 3kW Dim/Non-Dim /BP module with RCBO 250Qs		76603BPR
EC21 Dual 3kW Dim/Non-Dim /BP module with RCBO 400Qs		76606BPR
EC21 Dual 3kW Dim/Non-Dim /BP module with RCBO 250Qs with Reporting		76609BPR
EC21 Dual 3kW Dim/Non-Dim /BP module with RCBO 400Qs with Reporting		76612BPR
EC21 Dual 5kW Dim/Non-Dim /BP module with RCBO 250Qs		76615BPR
EC21 Dual 5kW Dim/Non-Dim /BP module with RCBO 400Qs		76618BPR
EC21 Dual 5kW Dim/Non-Dim /BP module with RCBO 250Qs with Reporting		76621BPR
EC21 Dual 5kW Dim/Non-Dim /BP module with RCBO 400Qs with Reporting		76624BPR
		
CONSTANT MODULES (NON-DIM)		ORDER CODE
EC21 Dual 3kW Constant Module SP		76658
EC21 Dual 3kW Constant Module SPN		76659
EC21 Dual 3kW Constant Module RCBO		76660
EC21 Dual 5kW Constant Module SP		76664
EC21 Dual 5kW Constant Module RCBO		76666
		
FLUORESCENT MODULES (3 WIRE)		ORDER CODE
EC21 Single 3kW Fluorescent Dim Module SP		76643
EC21 Single 3kW Fluorescent Dim Module SPN		76644

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CONTACTOR MODULES (NON-DIM)		ORDER CODE
EC21 Dual 3kW Non-Dim Module SP		76646
EC21 Dual 3kW Non-Dim Module SPN		76647
EC21 Dual 3kW Non-Dim Module RCBO		76648
EC21 Dual 3kW Non-Dim Module SP Reporting		76649
EC21 Dual 3kW Non-Dim Module SPN Reporting		76650
EC21 Dual 3kW Non-Dim Module RCBO Reporting		76651
EC21 Dual 5kW Non-Dim Module SP		76652
EC21 Dual 5kW Non-Dim Module RCBO		76654
EC21 Dual 5kW Non-Dim Module SP Reporting		76655
EC21 Dual 5kW Non-Dim Module SPN Reporting		76656
EC21 Dual 5kW Non-Dim Module RCBO Reporting		76657
THYRISTOR DIMMER MODULES - STANDARD		ORDER CODE
EC21 Dual 3kW Dim Module with 200Qs SP		76601
EC21 Dual 3kW Dim Module with 200Qs SPN		76602
EC21 Dual 3kW Dim Module with 200Qs RCBO		76603
EC21 Dual 3kW Dim Module with 435Qs SP		76604
EC21 Dual 3kW Dim Module with 435Qs SPN		76605
EC21 Dual 3kW Dim Module with 435Qs RCBO		76606
EC21 Dual 5kW Dim Module with 200Qs SP		76613
EC21 Dual 5kW Dim Module with 200Qs SPN		76614
EC21 Dual 5kW Dim Module with 200Qs RCBO		76615
EC21 Dual 5kW Dim Module with 435Qs SP		76616
EC21 Dual 5kW Dim Module with 435Qs SPN		76617
EC21 Dual 5kW Dim Module with 435Qs RCBO		76618
EC21 Single 10kW Dim Module with 200Qs SP		76625
EC21 Single 10kW Dim Module with 200Qs SPN		76626
EC21 Single 10kW Dim Module with 200Qs RCBO		76627



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THYRISTOR DIMMER MODULES - REPORTING	ORDER CODE
EC21 Dual 3kW Dim Module with 200Qs SP Reporting	76607
EC21 Dual 3kW Dim Module with 200Qs SPN Reporting	76608
EC21 Dual 3kW Dim Module with 200Qs RCBO Reporting	76609
EC21 Dual 3kW Dim Module with 435Qs SP Reporting	76610
EC21 Dual 3kW Dim Module with 435Qs SPN Reporting	76611
EC21 Dual 3kW Dim Module with 435Qs RCBO Reporting	76612
EC21 Dual 5kW Dim Module with 200Qs SP Reporting	76619
EC21 Dual 5kW Dim Module with 200Qs SPN Reporting	76620
EC21 Dual 5kW Dim Module with 200Qs RCBO Reporting	76621
EC21 Dual 5kW Dim Module with 435Qs SP Reporting	76622
EC21 Dual 5kW Dim Module with 435Qs SPN Reporting	76623
EC21 Dual 5kW Dim Module with 435Qs RCBO Reporting	76624
EC21 Single 10kW Dim Module with 200Qs SP Reporting	76631
EC21 Single 10kW Dim Module with 200Qs SPN Reporting	76632
EC21 Single 10kW Dim Module with 200Qs RCBO Reporting	76633
EC21 Single 10kW Dim Module with 435Qs SP Reporting	76634
EC21 Single 10kW Dim Module with 435Qs SPN Reporting	76635
EC21 Single 10kW Dim Module with 435Qs RCBO Reporting	76636
FILLER MODULES	ORDER CODE
C21/EC21 Module Filler Blank	76588
C21/EC21 Row Filler Blank	76697

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