

EDS60

DIGITAL DIMMING SYSTEM

30 Plug-in Modules per 2x10A or 1x25A Dimmers

LIGHTING
Nova



New generation stationary fully digital dimming system intended for large lighting systems with the most challenging use in theatres, studios and architectural lighting whenever performance and cost are the prime consideration. It enables usage of 60 dimmers per load 10A or 30 dimmers per load 25A.

Device Description

The basement of the device is iron casing (switchgear cubicle type) with standard 19" mounting, horizontal projection 600 x 400mm.

The case contains following parts:

- Mounting area for power supply cable connection to input circuit breaker 3x200A and for load connections (connected by 4mm² clamps). It is possible to place remote controlled power supply contactor, residual current device (RCD), power contactors for non-dim loads switching and more control units to this area according to the customer wishes.

- Powerful control unit section of identical functions as the control unit of DDS dimmer system, but of completely new circuit solution. The control process is fully digital without analogue ramping or signal conversion. Dimmer modules as well as the control unit are suitably placed behind the glass door, which enables good overview about the system state besides the closed door.
- Relevant number of mounting boxes for plug-in dimmer modules EDU210 (2x10A) or EDU125 (1x25A), as well as complete power and control cable connections. Line protection provide circuit breakers C10A (resp. C25A) in dimmer modules.

The applied concept enables arbitrary, but after installation invariable combination of dimmer modules for loads 10A or 25A (it is necessary to define their configuration in order).

EDS60

Main Features

- Power supply 3x230/400V 50/60Hz
- Fusing each dimmer by 25A/10A C circuit breaker
- High short circuit resistance is guaranteed by 500A resistant thyristors
- PLL technology for balancing of mains frequency fluctuation
- High specification TV Broadcast standard filtering - RFI fulfils EN55014 (300µs)
- Fluorescent lamps control possibility
- Two DMX512 inputs DMXA and DMXB with individual patches (second optional)
- Convection cooling with additional cooling by electronically controlled fans

Programmable Features

Menu SET allows these settings:

- Language: English or German
- 1st dimmer address from DMX512 in all range
- Case number
- Keypad lock

Menu DIMMER allows these settings:

- All settings are available for single or all dimmers
- Max. output level in range 50 – 100%
- Preheat in range 0 - 20%
- Fluorescent mode
- Dimmer characteristics (LAW): Linear, Square, S-law, Nondim
- Response time range 0 - 1.0 sec
- Individual addressing (PATCH)

Menu PRESET/CHASER allows:

- Programming of 90 lighting cues from DMX512 input or manually
- Setting of cues fade time
- Determination of unit behaviour when DMX signal is interrupted (DBO, Hold, Preset)
- Deleting of whole cues



Plug-in Power Modules 1x25A a 2x10A

Optional Equipment

- Input for wireless remote control
- Second input DMX512 (DMX B)

Accessories

- Wireless remote control system RC941
- Wire remote control system RCTW941

Digital control connectors and cables

Available Versions

- EDS60 - switchgear cubicle with control unit for 30 plug-in modules
- EDU210 - plug-in module 2x10A
- EDU125 - plug-in module 1x25A

Technical Specification

Dimmers	30 x 25A to 60 x 10A
Lighting Cues	90
Programmable Fade Time	0-20min
Power Supply	3 x 230/400V / 50/60Hz + PE +N
Max. Supply Current	3 x 200A
Maximal Total Load	138kW
Maximal Load per Dimmer	25A (5.75kW) or 10A (2.3kW)
Minimal Load per Dimmer	60W
Maximal Surrounding Temperature	35°C
RFI Suppression	300 µs
Control Signal	DMX512/1990
Dimensions (WxHxD)	600x1800x400mm
Weight: Switchgear cubicle without plug-in modules	22kg
Plug-in module	1.5kg