

SDDS600/720

DIGITAL DIMMER SYSTEM

30/36 Plug-in Modules 2x10A or 1x25A

LIGHTING
Nova



Stationary fully digital dimming system intended for large lighting systems with the most challenging use in theatres, studios and architectural lighting. It is designed for floor mounting and enables usage of 60 (height 1600mm) or 72 (height 1800mm) dimmers per load 13A or 30/36 dimmers per load 25A.

Device Description

The basement of the device is iron casing (switchgear cubicle type) with horizontal projection 800 x 400mm containing following parts:

- Terminal area for power supply cable connection with input circuit breaker 3x200A (SDDS600) / 3x250A (SDDS720), remote controlled air contactor, 5 / 6 pieces of 40A residual current device (one for six plug-in modules) and clamps for load connections.
 - Relevant number of mounting boxes for plug-in dimmer modules SDDU23 (2x10A), SDDU51 (1x25A) or SDDU101 (1x50A), as well as complete power and control cable connections.
- Line protection provide circuit breakers C10A, C25A or C50A in dimmer modules.
- The applied concept enables arbitrary, but after installation invariable combination of dimmer modules for loads 10A, 25A or 50A (it is necessary to define their configuration in order).

- Powerful control section habitates with the same control unit as the DDS dimmer system but extended to control of 72 dimmers. It is identically equipped with fast processor DALLAS 80C320, field programmable gate arrays XILINX and comprehensive back-lighting LCD to provide an accurate, stable and reliable output value for each channel. All operating parameters can be easily modified with the user friendly control panel. The control unit as well as dimmer modules are suitably placed behind the glass door, which enables good overview about the system state besides the closed door.

SDDS600/720

Main Features

- Power supply 3x230/400V 50/60Hz
- Fusing each dimmer by circuit breaker
- Smooth 1000 step fade resolution
- Precision line voltage regulation for stable output with fluctuating supply voltage
- Line voltage indication on LCD
- PLL technology for balancing of mains frequency fluctuation
- High specification TV Broadcast standard filtering - RFI fulfils EN55014 (300µs)
- Fluorescent lamps control possibility
- 98 programmable cues for preset and backup use
- Two DMX512 inputs DMXA and DMXB with individual patches
- 24 analog 0/+10V patchable inputs and outputs
- Wireless or wire remote control
- Convection cooling with additional cooling by electronically controlled fans



Plug-in Power Modules 1x25A a 2x10A

Programmable Features

- Language: English or German
- 1st dimmer address from DMX512 in all range
- Individual addressing (PATCH) for all inputs
- Keypad lock
- Max. output voltage in range 50 - 250V
- Preheat in range 0 - 20%
- Fluorescent mode
- Dimmer characteristics (LAW): Linear, Square, S-law, Nondim
- Response time 30, 100, 300ms
- Programming of 98 lighting cues from DMX512 input or manually
- Setting of cues fade time
- Determination of unit behaviour when DMX signal is interrupted (DBO, Hold, Preset)

Optional Equipment

- Input for wireless remote control
- Second input DMX512 (DMX B)
- Analog inputs and outputs module (24 channels)

Accessories

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

Digital and analog control connectors and cables

Available Versions

- SDDS600 - full dimmer case for 30 modules
- SDDS720 - full dimmer case for 36 modules
- customer configuration case (necessary to define plug-in power modules configuration in order)
- SDDU23 - plug-in module 2x13A
- SDDU51 - plug-in module 1x25A
- SDDU101 - plug-in module 1x50A

Technical Specification

| | SDDS600 | SDDS720 |
|---------------------------------|------------------------|--|
| Dimmers | 30 x 25 A to 60 x 13 A | 36 x 25 A to 72 x 13 A |
| Lighting Cues | | 98 |
| Power Supply | | 3 x 230/400V / 50/60Hz + PE +N |
| Max. Supply Current | 3 x 200 A | 3 x 250A |
| Maximal Total Load | 138 kW | 172.5kW |
| Maximal Load per Dimmer | | 11.5 kW (50A) or 5.75 kW (25A) or 3 kW (13A) |
| Minimal Load per Dimmer | | 60 W |
| Maximal Surrounding Temperature | | 35°C |
| RFI Suppression | | 450 µs |
| Digital Control Signal | | DMX512/1990 |
| Analog Control Signal | | 0/+10V / 0.5 mA |
| Dimensions (WxHxD) | 800 x 400 x 1600 mm | 800 x 400 x 1800 mm |
| Weight | | approx. 70kg (according to configuration) |
| Weight of Plug-in Module | | 3,5kg |