

Enfis

LED Driver – 120W



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Key Benefits

- High performance and reliability at high ambient temperatures
 - High spec components and smart control
- High output in high ambient temperatures without risk of cut-out
 - Smart 2-stage dynamic thermal protection
- Enables RGBW/RGBA
 - 4-channel system
- Remote monitoring and control
 - DMX RDM
- ***New high-current version drives QUATTRO Mini. Available on request... contact info@enfis.com***



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Key Features

- Ⓔ **Key features for High Ambient Temperatures**
- Ⓔ 2-stage dynamic thermal protection:
 - Thermal cut-out
 - Ensures protection of LEDs to maintain system life
 - Thermal dimming:
 - Ensures max output can be set as high as possible without peaks in ambient causing cut-out
 - Smooth control results in dimming being virtually unnoticeable
- Ⓔ All components verified as OK operating in 60°C ambient
- Ⓔ Standard driver power rating: 30W/channel
- Ⓔ Power Transistors rated at 60W/channel



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Key Features

- **Key Features for High Ambient Temperatures**
- Component reliability: analysis of component failure at elevated ambient temperature.
 - Sensitive component: electrolytic capacitors:
 - Tend to fail with elevated temperature
 - Enfis have specified high-rated component
 - Rated to 105°C
 - 48,000 hour life at constant 70°C operating temp (measured component temperature in ambient of 60°C)



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Key Features

Other Key Features

DMX capability:

- DMX in/out
- DMX RDM enabling remote:
 - On/off function
 - DMX channel programming
 - LED temperature monitoring
 - Dynamic thermal protection monitoring
 - Logging of luminaire running time

Max current calibration:

- Standard: 500mA
- Available range: 100mA to 1000mA/channel
- ***New high current 1500mA/channel version available on request***
- ***Drives UNO Plus or QUATTRO Mini contact info@enfis.com***

Dimming

- Analogue or PWM



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System Description

Power Input: 48V d.c. max: 2.75A

Output:

- Number of channels: 4
- Voltage range per channel: 16V – 42V
- Current range per channel: 30mA-1A
- Maximum power per channel: 30W
- ***New high current 1500mA/channel version available on request***

Control and Feedback

- Permanent temperature monitoring channel – can be customised to multiple channels through auxiliary inputs.
- 4 – channel efficient LED drivers based on switch mode technology
- Current and voltage monitoring of each channel
- Low voltage supply monitor

Driver Features

- Individual ON/OFF channel
- 8-bit Pulse Width Modulation (PWM) for dimming
- Pseudo random colour sequencing

Connectivity

- 2 auxiliary inputs available for switches, potentiometers etc.
- TTL RS-232 interface
- DMX – RS485 interface
- DMX RDM protocol supported
- USB/Serial PC interface
- I2C interface available for customer requirements

Dimensions

- 125mm x 110mm x 45mm



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