

700 PRO RGBW / RGBA

66W RGB-WHITE / RGB-AMBER LED MODULE



AVAILABLE OPTIONS

LED MODULE

RGBW / RGBA



RGB, White (6500K)



RGB, PC Amber



RGBW



RGBA



35°



60°

DRIVER DIMMING



(DA)



(DMX)

TECHNOLOGY AND FEATURES



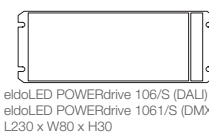
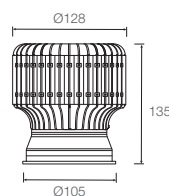
ComfyEYE

Low Flicker,
No Risk
(IEEE 1789)



Converging Optical Lens
Maximising LOR

DIMENSIONS (MM)



eldoLED POWERdrive 106/S (DALI)
eldoLED POWERdrive 1061/S (DMX)
L230 x W80 x H30



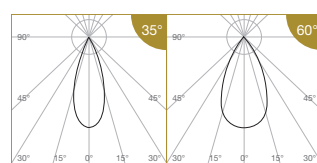
eldoLED POWERdrive 106/M (DALI)
eldoLED POWERdrive 1061/M (DMX)
L370 x W41 x H30

SPECIFICATIONS

| | |
|---------------------------|---|
| Family Type | 700 Series |
| Typical Operating Voltage | 22-31V (700P 66W RGBW), 27-33V (700P 66W RGBA) |
| Typical Operating Current | 550mA per channel (max.) |
| System / Input Power | 74W |
| Colour | Black |
| Materials | Aluminium, plastic |
| Compatibility | Compatible with ELR size-6 fixtures or most AR111 fittings. |
| Lifetime | 50,000 hours (80% lumen maintenance at Ta = 25°C), B10 |
| Beam Angles | 35°, 60° |
| Colour Temperatures | RGBW (6500K), RGBA (PC Amber) |
| CRI | N/A |
| SDCM | N/A |

| | |
|---------------------|---|
| Ingress Protection | IP40 (LED module only) |
| Weight | 1200g (LED module only) |
| Dimming | Compatible with DALI or DMX dimmable constant current drivers or decoders |
| Mains Connection | Push-pin or screw terminals for convenient connection |
| Mains Voltage | 220-240V, 50Hz (with driver), 36-48V DC constant voltage (with decoder) |
| Power Factor | N/A |
| Fire Safety | Glow wire test 850°C, UL94V-0, VW-1 |
| Flammability Mark | F |
| Safety Class | Class 3 |
| Standards | IEC 62031 |
| Regulatory Markings | CE, RoHS |

700 PRO RGBW



| Height (m) | | E _{max} (lx) | |
|------------|------------|-----------------------|------|
| | | 35° | 60° |
| 1 | E(0°) | 8711 | 3398 |
| | Cone Ø (m) | 0.59 | 1.02 |
| 2 | E(0°) | 2178 | 849 |
| | Cone Ø (m) | 1.18 | 2.05 |
| 3 | E(0°) | 968 | 378 |
| | Cone Ø (m) | 1.78 | 3.07 |
| 4 | E(0°) | 544 | 212 |
| | Cone Ø (m) | 2.37 | 4.09 |
| 5 | E(0°) | 348 | 136 |
| | Cone Ø (m) | 2.96 | 5.12 |

Correction Factor: 700P RGBA - f = 0.82

| ELR LED Module | | | | | Luminous Flux (lm) at 16W per Channel | |
|----------------|-----------|--------------|----------------------------|-----------------------|---------------------------------------|-----|
| Type | LED Power | System Power | Independent Colour Channel | Wavelength (nm) / CCT | RGBW | |
| 700 Pro RGBW | 64W | 74W | Red | 625 | 815 | 815 |
| | | | Green | 525 | 960 | 960 |
| | | | Blue | 460 | 220 | 220 |
| | | | White | 6500K | 935 | 935 |
| 700 Pro RGBA | 64W | 74W | Red | 625 | 815 | 815 |
| | | | Green | 525 | 960 | 960 |
| | | | Blue | 460 | 220 | 220 |
| | | | PC Amber | 593 | 420 | 420 |

Data are based on 16 Watts per channel. The 700P RGBW / RGBA module allows a maximum limit of 66 Watts total LED lamp power at each instant of operation.

Driver Recommendation:

AC input, DALI / DMX 4 channel LED driver, configurable output current.

DC input, DMX 4 channel decoder, configurable output current.

*Recommended drivers allow the output current to be configured at preferred ratios between independent colour channels, subjected to total LED power not exceeding the allowed maximum limit of 66 Watts.

| Example of 700P RGBW with maximum output current by equal ratio on every independent channel | | | |
|--|-------------|---------------------------------|---------------|
| Independent Colour Channel | Voltage (V) | Configurable Output Current (A) | LED Power (W) |
| Red | 22 | 0.55 | 12.1 |
| Green | 31 | 0.55 | 17.05 |
| Blue | 31 | 0.55 | 17.05 |
| White | 31 | 0.55 | 17.05 |
| Total LED Power (must not exceed 66W) | | | 63.25 |

| Example of 700P RGBA with maximum output current by equal ratio on every independent channel | | | |
|--|-------------|---------------------------------|---------------|
| Independent Colour Channel | Voltage (V) | Configurable Output Current (A) | LED Power (W) |
| Red | 23 | 0.55 | 12.65 |
| Green | 33 | 0.55 | 18.15 |
| Blue | 33 | 0.55 | 18.15 |
| PC Amber | 27 | 0.55 | 14.85 |
| Total LED Power (must not exceed 66W) | | | 63.8 |

| Example of 700P RGBW with output current by different ratios on every independent channel | | | |
|---|-------------|---------------------------------|---------------|
| Independent Colour Channel | Voltage (V) | Configurable Output Current (A) | LED Power (W) |
| Red | 22 | 0.35 | 7.7 |
| Green | 31 | 0.35 | 10.85 |
| Blue | 31 | 0.35 | 10.85 |
| White | 31 | 0.7 | 21.7 |
| Total LED Power (must not exceed 66W) | | | 51.1 |

| Example of 700P RGBA with output current by different ratios on every independent channel | | | |
|---|-------------|---------------------------------|---------------|
| Independent Colour Channel | Voltage (V) | Configurable Output Current (A) | LED Power (W) |
| Red | 23 | 0.35 | 8.05 |
| Green | 33 | 0.35 | 11.55 |
| Blue | 33 | 0.35 | 11.55 |
| PC Amber | 27 | 0.7 | 18.9 |
| Total LED Power (must not exceed 66W) | | | 50.05 |

ORDERING MATRIX CHART

| LED Module | | | | |
|------------|-----|------------|-----|--------------------------------------|
| LED Power | | Beam Angle | | Colour Temp |
| ELR700P66 | 66W | 35 | 35° | RGBW Red, Green, Blue, White (6500K) |
| | | | 60° | RGBA Red, Green, Blue, PC Amber |
| | | 60 | 60° | |

example: ELR700P66.35.RGBW

*Drivers for 700P RGBW / RGBA LED modules are sold separately.