



ENFIS UNO Plus Air Cooled Light Engine

Rich mono spot source and colour/CCT changing with 36 high-power LEDs

Features & Benefits

Two Formats

• Plug & Play

- Just plug in and go straight from the box!

• Luminaire integration kit

- Array on connectorized PCB with mounting holes.
- Separately housed driver module

Superior colour mixing with dense packaging and interleaving of colours

4.3 Billion colours

- Rich colours and wide dynamic range
- 4 x 256 step dimming

Small Size

- Ideal for moving spot lights
- Ideal for colour/CCT-changeable drop in replacement spot source

Full colour/colour temperature control and monitoring

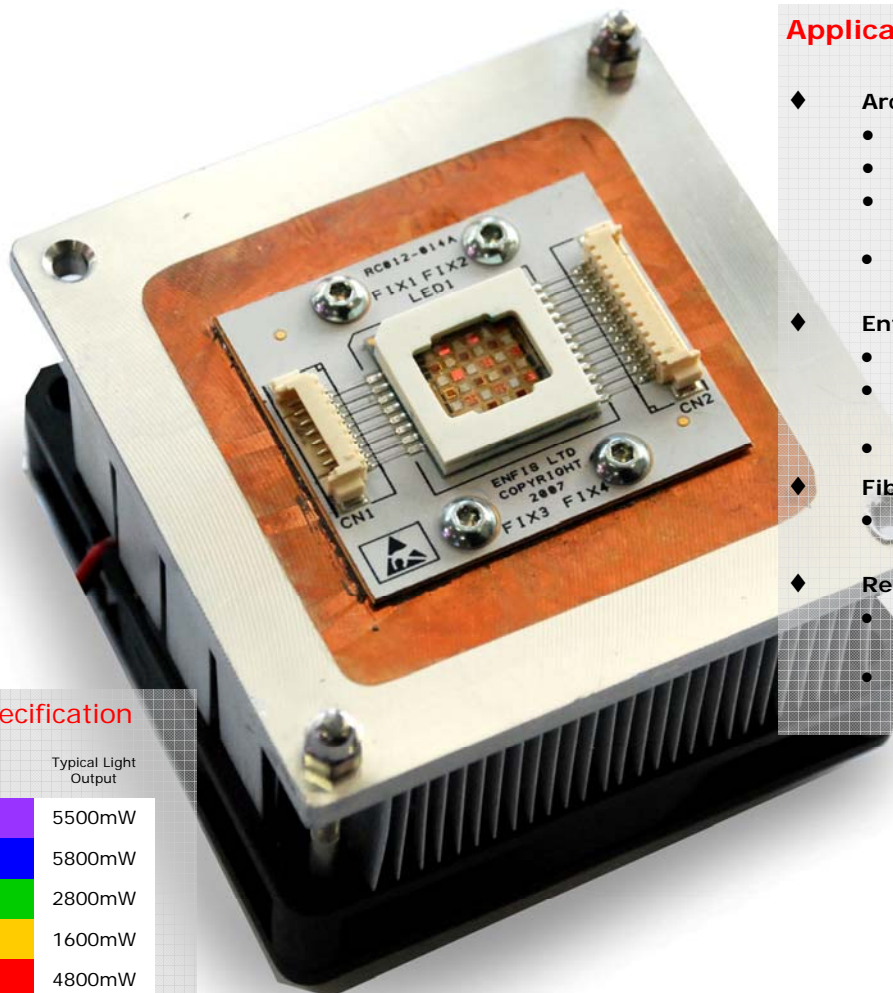
50W: High power useable light from a 1cm² array

DMX512 compatible

Smart thermal protection system

Life-long 100% Lumen maintenance

System 3-year warranty



Applications & Markets

- ♦ Architectural lighting
 - Exterior buried spotlights
 - Exterior floodlights
 - Exterior/interior wall-washing
 - Interior colour/CCT-variable lighting
- ♦ Entertainment lighting
 - Club/bar lighting
 - Theatre spot gel replacement
 - Moving spots
- ♦ Fibre optic lighting
 - Colour/CCT-changing illuminator light sources
- ♦ Retail lighting
 - Colour/CCT-variable spotlights
 - Display lighting

Outline Specification

Wavelength		Typical Light Output
405nm		5500mW
465nm		5800mW
520nm		2800mW
595nm		1600mW
630nm		4800mW
870nm		5000mW
4100°K		1250lm
RGBA		900lm
RGBW		1000lm
Hi-Cri		1150lm

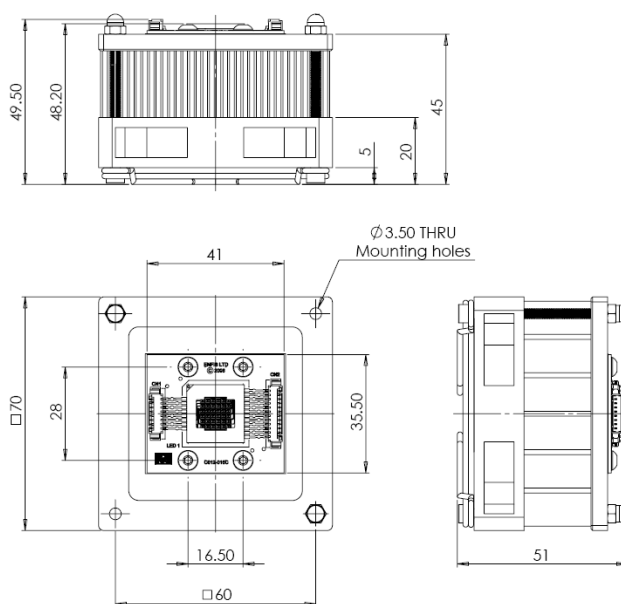


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Technical Specification

Electro-Optical Characteristics

Colour	Peak Wavelength (nm)	Typ. Light Output (mW)	Typ. Light Output (lm)	Array Electrical Power (W)
Violet	405	6200	-	50
Blue	465	6500	400	50
Green	520	2450	1100	50
Amber	595	1650	765	50
Red	630	4750	855	50
NIR	870	4500	-	50
Neutral White	3900-4600K	-	1320	50
RGBA	R	1350	250	50 (12.5W/ Channel)
	G	850	350	
	B	1800	100	
	A	570	270	
RGBW	R	1350	250	50 (12.5W/ Channel)
	G	850	350	
	B	1800	100	
	W	-	350	
Hi-Cri	R/A	1000	260	50 (12.5W/ Channel)
	G	850	320	
	B	1800	100	
	W	-	350	
Please contact Enfis Ltd for further information				



Electronics:

Technical Specification

Operating temperature	-10°C to +45°C
Storage temperature	-20°C to +85°C
Typical Driver Efficiency	>90%

Input To Driver

Input voltage	48V DC <3A
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Ambient temperature = 25°C

LED Driver PCB

Efficient LED driver based on switch mode technology
Temperature monitoring and control
USB/Serial PC interface

Connectivity

TTL interface with USB convertor (USB connector head provided)

Thermal Management

Composite metal heatsink with integrated low noise DC fan
Low thermal resistance <1°C/W

Handling LED Array

Contact with the encapsulation on the surface of the LED array must be avoided to prevent damage. Do not apply pressure to the encapsulation or allow it to come into contact with sharp objects. During operation the encapsulation will be hot and contact should be avoided.

Static Electricity

Care must be taken when handling, these products are sensitive to static electricity .
Observe static handling precautions.



Cleaning

Avoid touching the LED array surface.
To clean—BLOW surface with either dry air or nitrogen gas

Eye Safety Precautions

The light output of the products may cause injuries to human eyes in circumstances where the products are viewed directly with unshielded eyes for more than a few seconds.

Please refer to IEC 60825-1:2001 for further information

