ENFIS UNO Air Cooled Light Engine

Smart, compact, efficient, high power LED spot source - total solution

Features & Benefits

Plug & Play

- Just plug in and go straight from the box!
- Ideal for product development and volume
- Reduces integration time and risk

USB Connection for monitoring in-put, output and temperature

Neutral White (4250K)

Single colours 365nm to 870nm

Ultra high density array up to 100 LEDs within 0.5cm^2 aperture

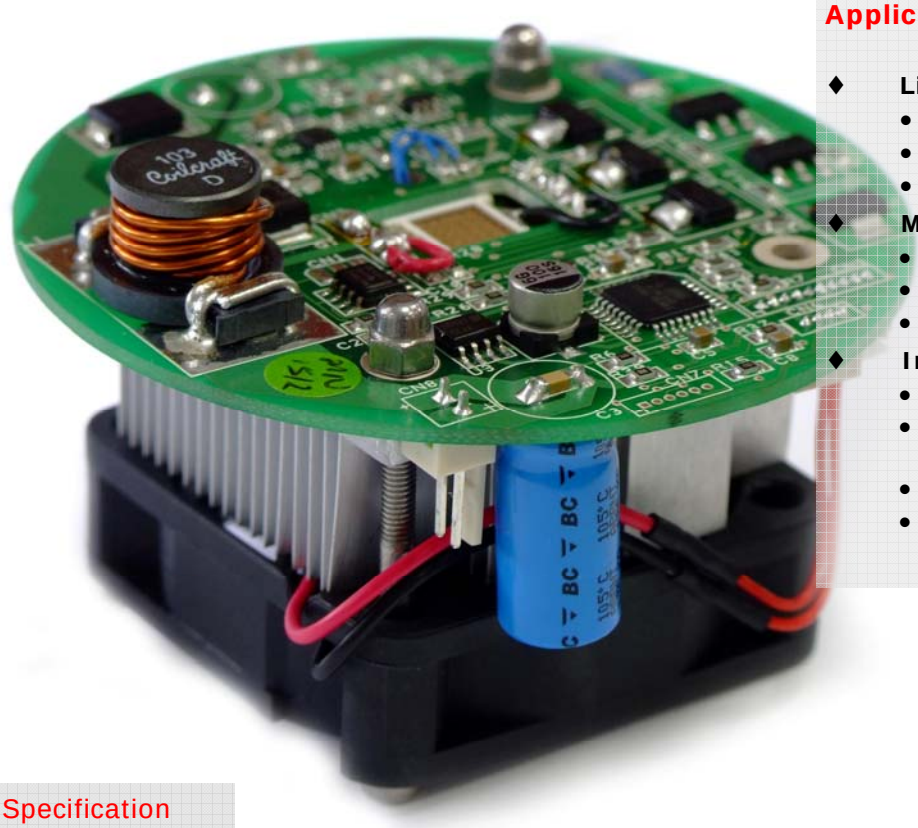
Smart thermal protection system

Optional life-long 100% lumen maintenance

Up to 38W

Long life, low maintenance

System 3-year warranty



Applications & Markets

- **Lighting**
  - Entertainment
  - Retail
  - Task
- **Medical**
  - Skin treatment
  - Neo-natal
  - Dental applications
- **Industrial**
  - Forensics
  - Security and surveillance
  - Non-destructive testing
  - Epoxy/adhesive curing

Outline Specification

Wavelength	Typical Light Output
365nm	600mW
375nm	1150mW
405nm	4900mW
465nm	5750mW
520nm	1850mW
595nm	1150mW
630nm	3890mW
870nm	1750mW
4250°K	1000 lm

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ENFIS

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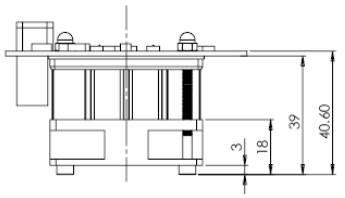
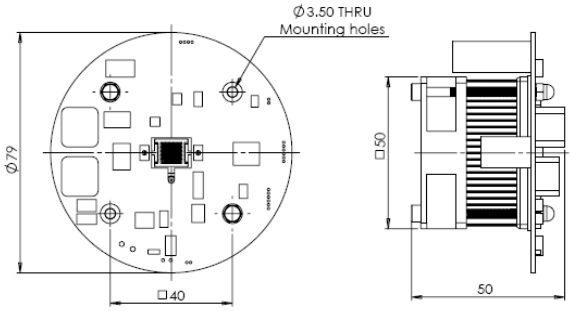
Technical Specification

Electro-Optical Characteristics

Colour	Peak Wavelength (nm)	Typ. Light Output (mW)	Typ. Light Output (lm)	Total Electrical Power (W)
SUVA	365	600	-	18
UVA	375	1150	-	18
Violet	405	4900	-	38
Blue	465	5750	330	38
Green	520	1850	860	38
Amber	595	1150	520	30
Red	630	3890	615	30
NIR	870	1750	-	16
Neutral White	3900-4600K	-	1000	38
Please contact Enfis Ltd for further information Amber, Red and NIR Power is limited by driver power supply				





Ambient temperature = 25°C

Electronics:

Technical Specification

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

Input To Driver

Input voltage

Blue / Green / Violet / UVA / White	12V <5A DC
Red / Amber	9V <5A DC
NIR	5V <5A DC

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 <1ºC/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

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