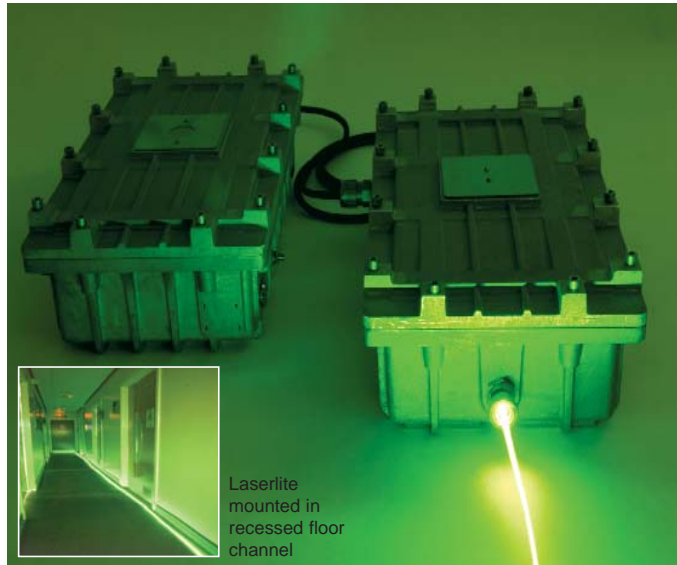


Laserlite utilises the latest side emitting fibre technology with light from a patented Diode pumped solid state laser to provide low level illumination.

Powered by a single, fully enclosed laser (Ex op), Laserlite provides a bright green light that is in the peak range for human eye response, thus it is visible even in the most adverse conditions including smoke filled locations. The design utilises side emitting fibre optics give a large continuous light source, allowing for a distance of over 200m to be illuminated.

This optical cabling system carries no electrical power only low levels of optical radiation, making it safe for use in a number of areas including Zone 0, Zone 1 and Zone 2 even corrosive environments or under water. This flexibility means that applications could be almost limitless.

The laser driver unit can be located in a Zone 1, Zone 2 or safe areas with a variety of enclosures available. The driver is provided with an internal back up battery for use as an emergency system in the event of a power failure. As power consumption is low (less than 80W) large areas can be covered efficiently without the need for a UPS system or large battery packs.



Laserlite mounted in recessed floor channel

Standard Specification

Features

Type of Protection	Ex d op is (Flameproof Inherently Safe optical radiation)	Emits green light at peak response frequency of human eye providing guidance along escape route
ATEX Classification	Group II Category 2 G	Over 200 metres of illumination from a single source
Area Classification	Zone 0 (fibre optic cable), Zone1 and Zone 2 areas to EN 60079-10 with installation to EN 60079-14	Fibre rope suitable for use in Zone 0 applications
Apparatus Standard	EN 60079-0 EN 60079-1 EN 60079-28	Control housing suitable for Zone 1
Certificate	Pending	Environmentally friendly Nickel Metal Hydride batteries, charging and discharging is digitally monitored and controlled to provide long battery life and the maximum duration possible
Coding	Ex d op is IIB T4 Tamb 35°C	Fully complies with IEC & CENELEC standard 60079-28: <i>Protection of Equipment and Transmission Systems using Optical Radiation</i>
Enclosure	Aluminium alloy LM6 to BS 1490. All fastenings stainless steel.	
Entry	2 x M20 cable entries for mains supply 1 x M20 for interconnection	
Termination	3 core 6mm ² max conductor with looping for mains supply	
Installation	Flat straps or via M8 bosses on rear (Enclosure) Fibre Optic - accessories	
Control Gear	Electronic	
Ingress Protection	IP66/67	
Electrical Supply	110-254V 50/60Hz	
Battery	NiMH	
Emergency Duration	90 minutes	

ATEX CATEGORY 2 ZONE 0, 1 & 2 APPLICATIONS

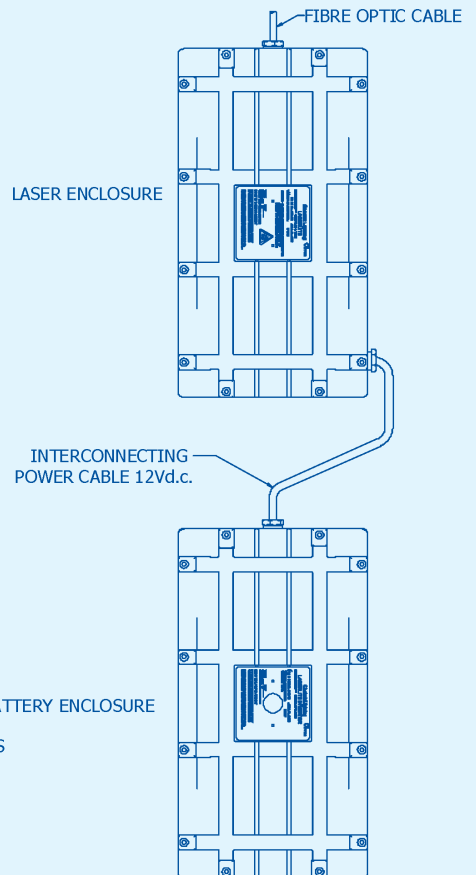
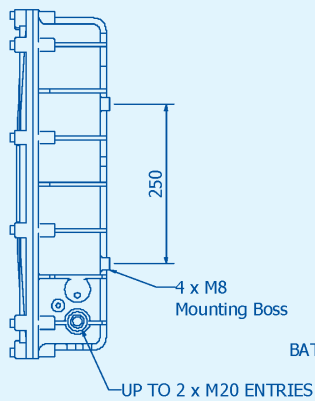
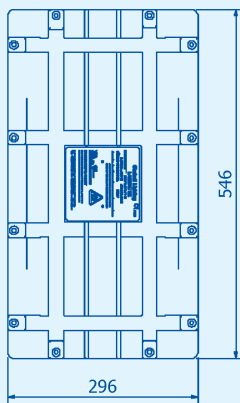
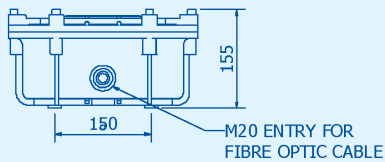
Std. Cat No.	Wattage	Weight
LASD/532/LA	60W	21Kg
LASD/532/LA/EM	100W	42Kg

Accessories (Should be ordered separately)

Contact Sales for information

Applications

- Emergency escape route lighting
- Walkway & Spider Deck lighting
- Obstruction lighting
- Sub-sea riser and underwater illumination
- Perimeter and structural lighting
- Suitable for handrail, stair tread or floor installation



Product design and specifications are subject to change without notice, please check the Chalmit website for latest specifications.