

HALO

Data Sheet

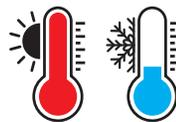
HALO ULR ELV (Ultra Long Range Extra Low Voltage)



HALO ULR (Ultra Long Range) is a premium grade specialized high performance LED strip lighting solution that is available in both the **LV 'Low Voltage'** solution similar in function to **HALO 1**, and the **ELV 'Extra Low Voltage'** solution similar in function to **HALO 2**, however with the capacity to manage **ULTRA LONG DISTANCES** with high lumen outputs.

The **HALO ULR ELV** 'extra low voltage' LED strip lighting solution, consists of LED strip lighting that is energised by external power controllers. These power controllers are connected to the existing AC low supply voltage, which converts that existing voltage into an 'extra low-safe to the touch' DC voltage, which in turn illuminates the LEDs.

- Premium Grade Lighting
- 100% Waterproof - IP68 rated
- Dust-Tech Tm Integrated dust repellent technology
- Proven life expectancy exceeding 10 years
- Designed to manage continuously on conditions 24/7/365
- Suited for extreme heat/extreme cold operating temperatures from -45 °C (-49 °F) to +45 °C (+113 °F)
- Non-Corrosive
- Fire retardant
- Zero toxicity when burned
- Halogen free cabling
- Zero maintenance
- Patented 2013
- Double for Your Trouble
- Upgrades available.

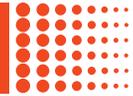


ANTI-CORROSION





FEATURES



FIRE

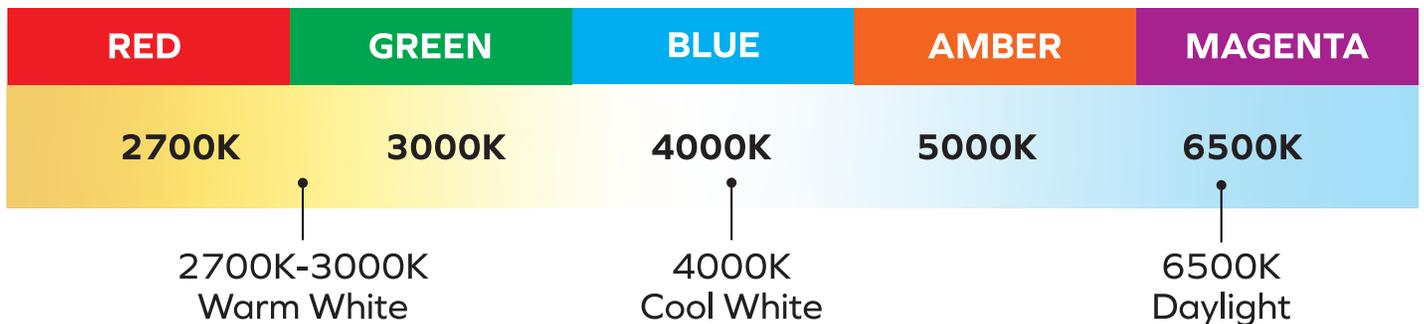


WATER



ICE

HALO ULR is available in all popular colours.



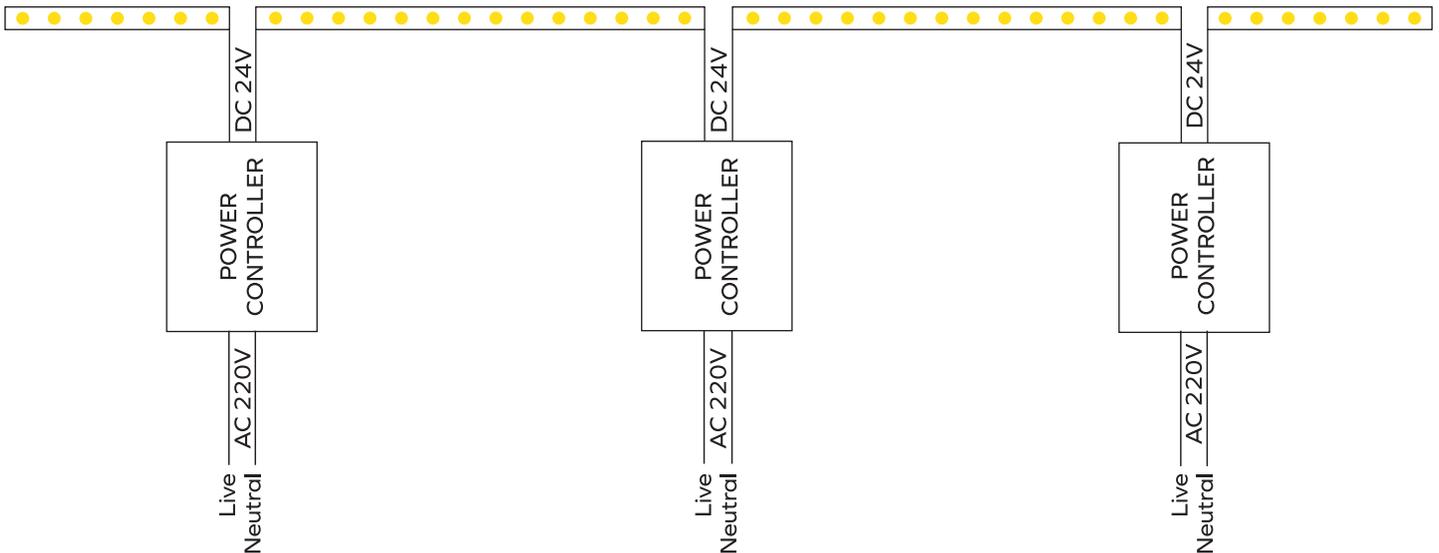
HALO ULR IS SUITABLE FOR THE FOLLOWING APPLICATIONS

- Mining
- Commercial
- Industrial
- Gas
- Petrochemical
- Marine Craft
- Military
- Submarine
- Ports
- Tunnels
- Subways
- Roadways
- Residential
- Architectural



INSTALLATION

The **HALO ULR ELV** LED strip lighting requires external power controllers to convert the existing AC voltage into the required DC voltage, with these power controllers equipped with a double output system, which allows each power controller to energise two separate lengths of **HALO ULR ELV** LED strip lighting simultaneously and also provide a 'piggyback' continuous run of lighting.



The power controllers are able to illuminate a length of **50 meters** on each output in the **24VDC** range, and **80 meters** on each output in the **48VDC** range, meaning the **24VDC** has the capacity to manage a total of **100 meters**, and the **48VDC** has the capacity to manage a total of **160 meters**.

The **HALO ULR ELV** LED strip lighting is supplied in any length ranging from 1m to 25m as ordered, either as a 'bare roll' of LED Strip with accessories separate, or arriving complete with factory fitted male and female adapters on either end for quick "plug and play TM" assembly and/or incorporating accessories in the lighting project build.

The 'Self Assembly' configuration is designed with 'simplicity' in mind & can be easily managed by unskilled personnel, with written instructions found in user manual, & visual demonstration on the HALO YouTube page.

Installation assist accessories include the **HALO** aluminium channels with optional covers for most general installations, and the **HALO** CLIPS typically used when the **HALO** LED strip is installed on straining wire either overhead or vertical.



Things to avoid during installation:

- Sharp bends on LED strip
- Unsupported and hanging on own weight
- Stress on connectors
- Stress on LED strip

SOS COMPATIBILITY

Strategic Optimal Synergy

HALO SOS COMPATIBILITY allows for multiple & diverse HALO product compatibility & interchangeability to provide a wholistic & full turnkey solution for all your lighting requirements:



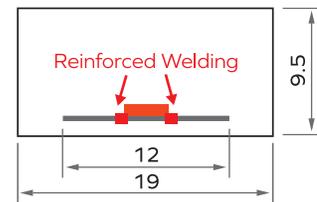
HALO ULR ELV SOS (Strategic Optimal Synergy)

- HALO 2
- HALO 3
- HALO SIGNAL
- HALO ULTRA LONG RANGE
- HALO EMERG
- HALO DAISY CHAIN
- HALO ULTRA BRIGHT
- HALO APEX
- HALO PORTABLE

OPTIONAL UPGRADES

TOUGH-TECH™

This upgrade includes almost doubling the protective silicone extrusion further increasing the impact resistance to unbelievable levels of IK09, plus the implementation of reinforced internal welded connections.



MOOD-TECH™

With the MOOD-TECH™ upgrade, you can soften the temperament of your lighting providing zones with a more softer mood, for communal areas such as canteens, refuge bays, meeting areas and more without compromising on high lumen output.

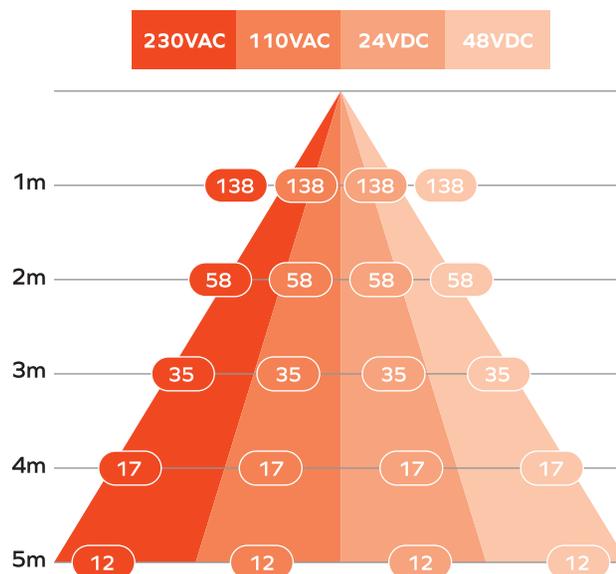


SPECIFICATIONS

HALO ULR ELV - 24VDC / 48VDC (ELV - Extra Low Voltage)

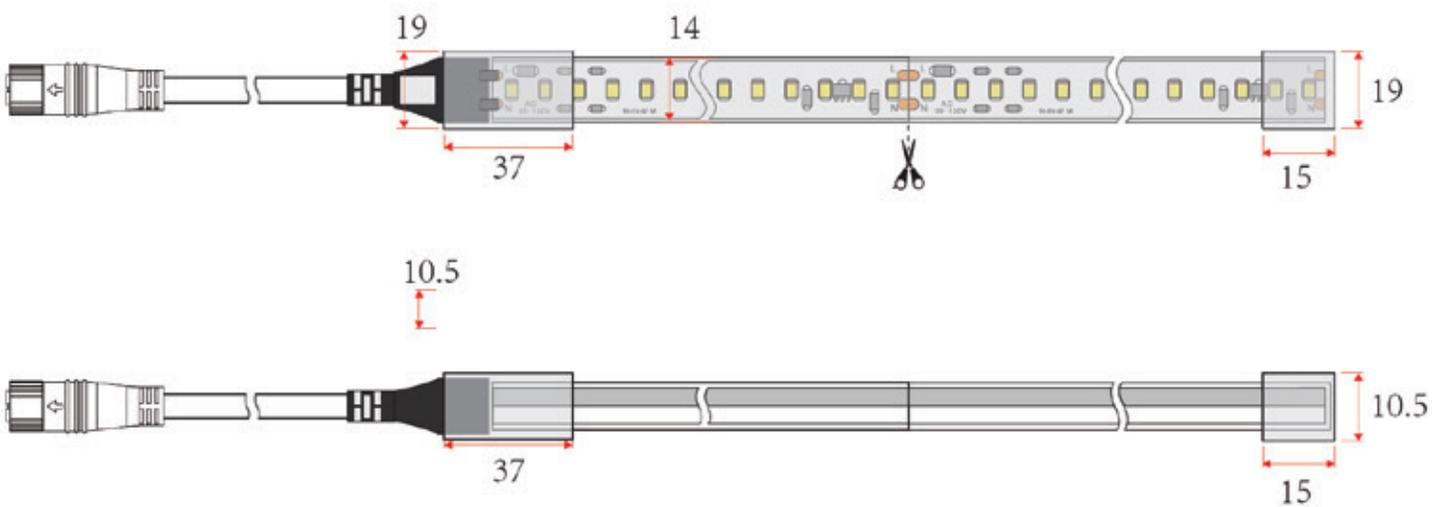
Category	HALO ULR 24V	HALO ULR 48V
Voltage rating	24VDC	48VDC
Range fed from ONE side	50 Metres	80 Metres
Range fed from BOTH sides	100 Metres	160 Metres
Operating temperature	-40°C - 45°C	-40°C - 45°C
IP Rating	68	68
Power Consumption /metre	7.2W	7.6W
Colour Rendering Index (CRI)	>80	>80
Colour temperature	5500 Kelvin	5500 Kelvin
Lumens per metre	>800	>800
Supply Voltage VAC	85 ~ 265VDC	85 ~ 265VAC
Expected Lifespan	10 Years +	10 Years +
Warranty Lighting	5 Years	5 Years
Fire Retardant	Yes	Yes
Outer Extrusion	Food Grade Silicone	Food Grade Silicone
Dimensions	7mm x 14mm	7mm x 14mm
Tensile Strength	+/- 50kg	+/- 50kg
Overvoltage Protection	Yes	Yes
Overheat Protection	Yes	Yes
Dust Repellant	Yes	Yes

HALO ULR 230VAC | 110VAC | 24VDC | 48VDC LIGHT GRAPH

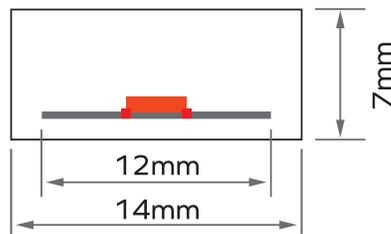


Measured in lux
Readings may vary slightly depending on site conditions

TECHNICAL DRAWINGS

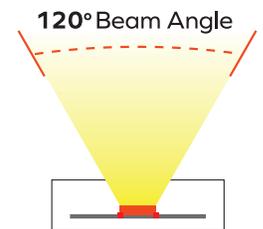


HALO ULR ELV Profile



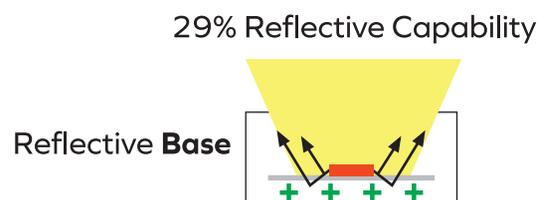
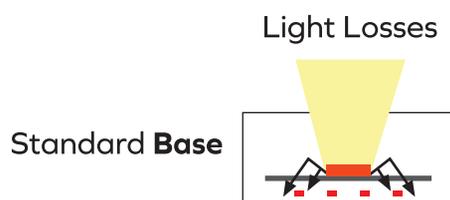
FOCUS-TECH™

With the implementation of FOCUS-TECH™ technologies as a standardized upgrade on all HALO LED Lighting; all LED's now have a focused 120° beam angle which considerably improves light quality, efficiency & intensity with a remarkable increase in lumen output.



REFLECT-TECH™

All HALO LED Strip lighting configurations has as a standard feature the incorporation of our REFLECT-TECH™ technologies, this feature incorporates cutting edge reflective technologies, meticulously engineered to cover the entire PCB LED base, thereby reflecting all previously lost lumen output, into the main beam of lighting, drastically increasing the efficiency of your lighting.



PART NUMBER GENERATION

SPECIFICATIONS		HALO
Category	ULR	ULR
Voltage Rating	24VDC	48VDC

Example: Name HALO + Category ULR + Voltage Rating 24VDC = HALO - ULR - 24VDC

WARRANTY

5 YEAR WARRANTY - 2.5 Year 'Double for your trouble'

HALO products have a proven lifespan exceeding 10 years, with HALO ULR ELV carrying a full 5-year warranty, this warranty is backed up with a 'Double for your trouble' replacement policy for the first 2.5 years, which means that we replace double the quantity of any product failures as quickly and as efficiently as possible.

Limited to LED strip lighting excluding accessories falling under general 'one-for-one' warranty replacement policies. With HALO, even when you think you lose, you always win.



Whatever the trouble... receive back **DOUBLE!**

CERTIFICATIONS

ISO9001:2015 SAA | RCM, CE ROHS (TUV) | ETL - C / US (Intertek) | Fire Resistant (MASC) | Toxicity (Firelab) | Anti-Static (MASC) | FCC (GTS) | Dustproof, IP68 Waterproof



HALO

halosolutions.co.za

