

# HALO

## Data Sheet

### HALO 3

#### LV (Low Voltage)

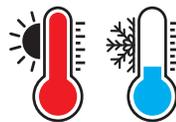


**HALO 3** is a premium grade specialized high performance LED strip lighting solution that is available in both the LV 'Low Voltage' solution similar in function to HALO 1, & the ELV 'Extra Low Voltage' solution similar in function to **HALO 2**.

The **HALO 3 LV** connects very conveniently directly to the available general supply voltage much like any normal household appliance would, without the need for any external components such as conventional power converters, with all necessary components built directly in the LED strip itself.

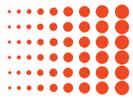
What makes this **HALO 3** unique is the optional 'self-assembly' or 'DIY' configuration, affording the end user the freedom to customize the LED Strip according to project requirements if preferable, or procure with factory fitted components.

- 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 3 is available in all popular colours in 4 brightness options namely:

**ALPHA** - ULTRA BRIGHT | **BETA** - HIGH BRIGHT | **GAMMA** - MEDIUM BRIGHT | **DELTA** - LOW BRIGHT



RED	GREEN	BLUE	AMBER	MAGENTA
2700K	3000K	4000K	5000K	6500K
2700K-3000K Warm White		4000K Cool White		6500K Daylight

### HALO 3 IS SUITABLE FOR THE FOLLOWING APPLICATIONS

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



## INSTALLATION

The HALO 3 LED strip lighting is supplied in any length ranging from 1 m to 100 m 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.

The HALO 3 LED strip lighting is simply connected to the available electrical supply at one end via a normal two wire connection being 'live' & 'neutral', & then entire length of HALO LED Strip lighting will become energized & illuminated without the need for any further connections.

For most typical underground overhead or vertical installations, the HALO LED strip lighting is attached to straining wires by means of our purpose made 'HALO CLIPS', with most other general installations making use of the HALO ALUMINIUM CHANNELS with optional covers, however the HALO 3 LED strip lighting may be attached to most surface structures through the use of glue.



### 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:



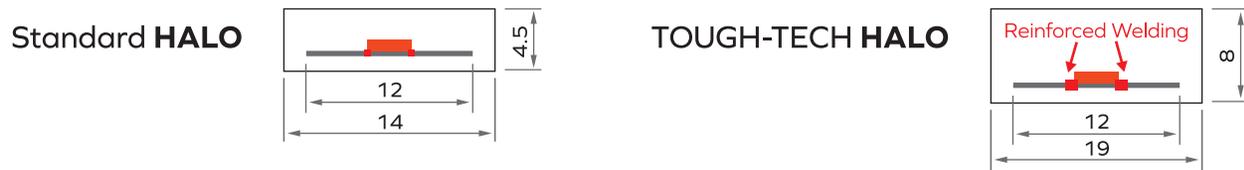
### HALO 3 SOS (Strategic Optimal Synergy)

- HALO 1
- HALO DAISY CHAIN
- HALO PORTABLE
- HALO EMERG
- HALO EMERG EVAC
- HALO ULTRA LONG DISTANCE
- HALO ULTRA BRIGHT
- HALO SIGNAL
- HALO BATTEN
- HALO APEX

## OPTIONAL UPGRADES

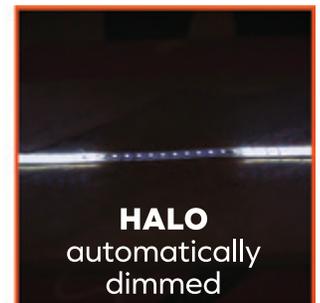
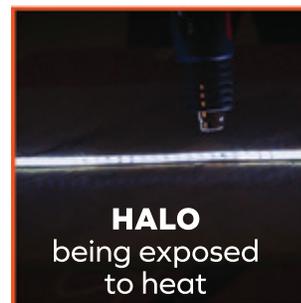
### TOUGH-TECH™

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.



### TEMP-TECH™

With this upgrade, each PCB or LED cluster segment is fitted with intelligent temperature management technologies, which will in the event of exposure to dangerously high temperatures, it will automatically dim the specific PCB affected only, thereby allowing the LED's to return back to within safe temperature parameters, & once this has been achieved, then the LED's will automatically return to full power lumen output.



### 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, et cetera, without compromising on high lumen output.

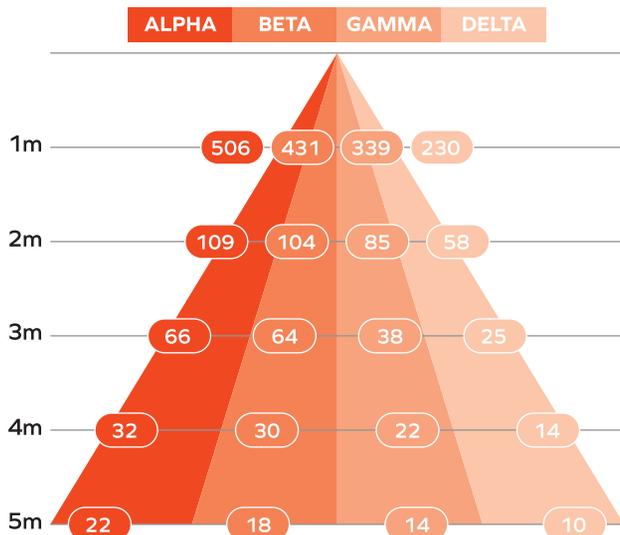


# SPECIFICATIONS

## HALO 3 - 230VAC / 110VAC (LV - Low Voltage)

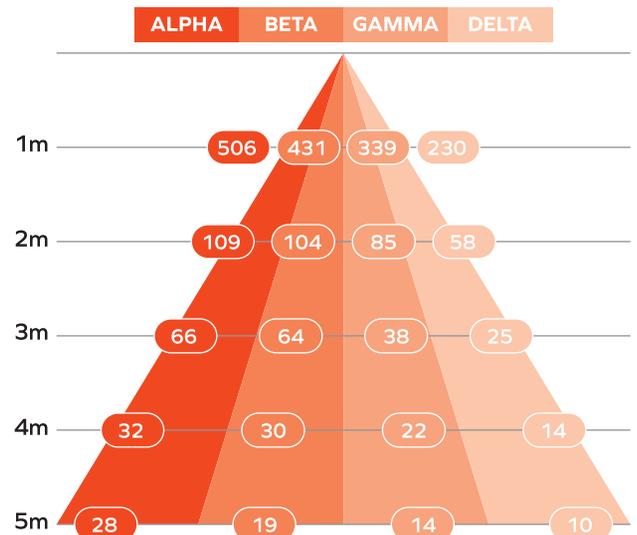
Category	ALPHA	BETA	GAMMA	DELTA	ALPHA	BETA	GAMMA	DELTA
Voltage rating	230VAC				110VAC			
Range fed from ONE side	100 Metres				80 Metres			
Range fed from BOTH sides	NA				NA			
Operating temperature	-40°C - 45°C				-40°C - 45°C			
IP Rating	68				68			
Power Consumption /metre	15.6W	15W	10W	7.6W	15.6W	15W	10W	7.6W
Colour Rendering Index (CRI)	>80				>80			
Colour temperature	5500 Kelvin				5500 Kelvin			
Lumens per metre	1500- 1600	1100- 1300	950- 1050	700-800	1500- 1600	1100- 1200	950- 1050	700-800
Supply Voltage VAC	200 ~ 240VAC				90 ~ 140VAC			
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	4.5mm x 14mm				4.5mm x 14mm			
Tensile Strength	+- 50kg - 60kg				+- 50kg - 60kg			
Overheat Protection	Yes				Yes			
Dust Repellant	Yes				Yes			

**HALO 3 - 230VAC LIGHT GRAPH**



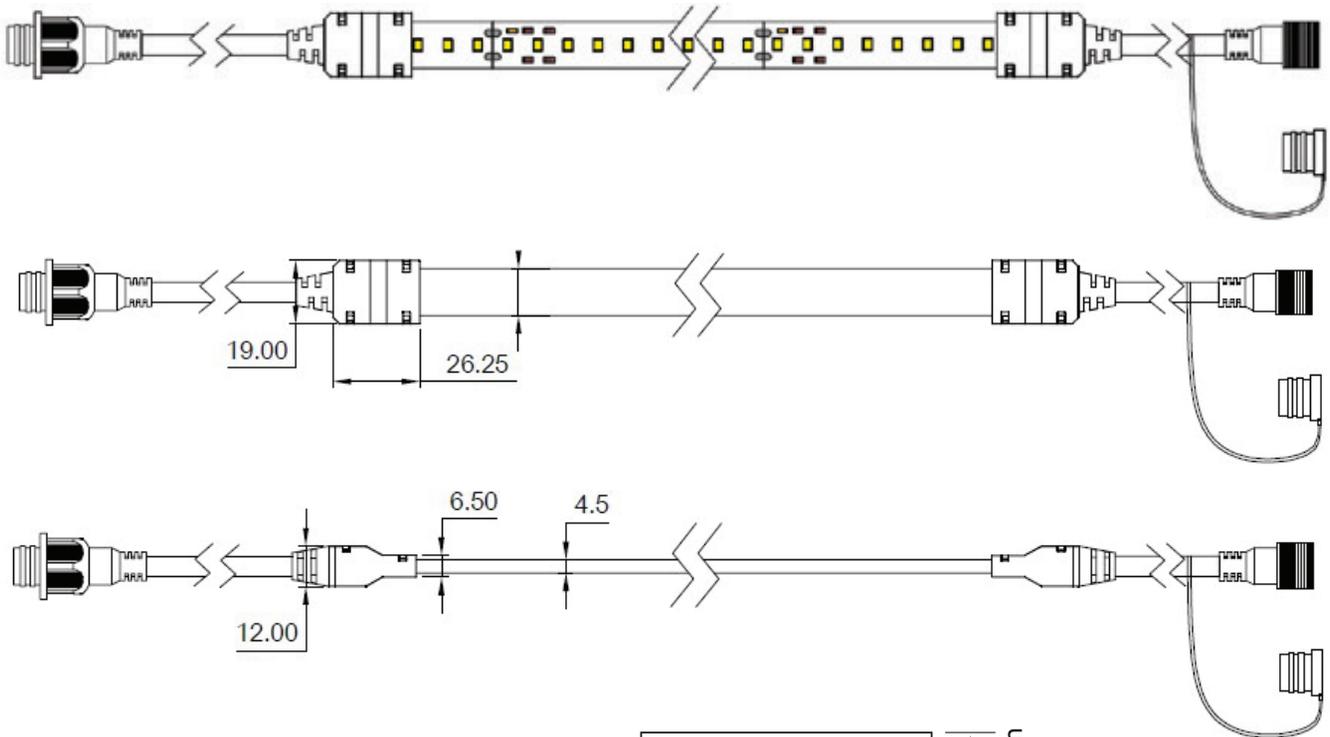
Measured in lux  
Readings may vary slightly depending on site conditions

**HALO 3 - 110VAC LIGHT GRAPH**

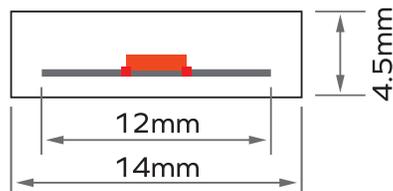


Measured in lux  
Readings may vary slightly depending on site conditions

## TECHNICAL DRAWINGS

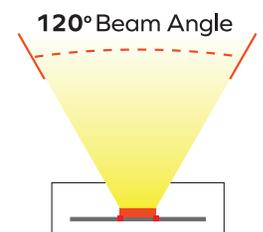


Standard HALO



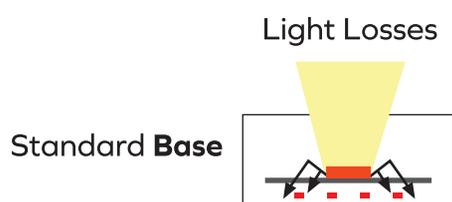
### FOCUS-TECH™

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.

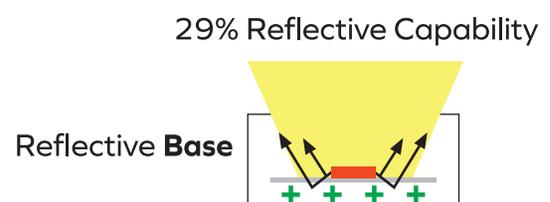


### REFLECT-TECH™

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.



Standard Base



Reflective Base

## PART NUMBER GENERATION

SPECIFICATIONS HALO 3								
Category	ALPHA	BETA	GAMMA	DELTA	ALPHA	BETA	GAMMA	DELTA
Voltage Rating	230VAC				110VAC			

Example: **HALO 3** + **GAMMA** + **230VAC** = HALO 3 - GAMMA - 230VAC

## WARRANTY

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

HALO products have a proven lifespan exceeding 10 years, with HALO 3 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](http://halosolutions.co.za)

