



GENERATION III

A NEW ERA FOR EMERGENCY
MONITORING AND TESTING

“ We pride ourselves on high quality design, manufacture and service, this new generation reflects just that ”



Generation III is a complete product range designed by Australian engineers to be of the highest quality.

GENERATION III

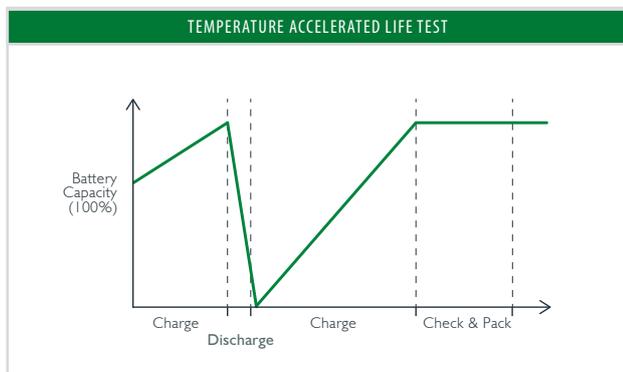
Introducing the new class-leading range of emergency products from Ektor. Generation III lifts the bar in performance, reliability and safety. All Generation III emergency products have been painstakingly engineered to perfection in Australia. Boasting one of the biggest engineering teams in the industry you can be confident that Ektor has the team and resources to deal with your requirements.

ENGINEERED QUALITY

There is a large difference between making a product and making a really exceptional product. Thousands of engineering hours have gone into making Generation III products great, from streamlining production, ensuring robust construction and using optimal materials. But engineering doesn't stop there, throughout the entire life of Generation III products, engineers are continuing to make advances in product reliability and design.

BURN-IN TEST

Quality and verification are a major difference provided by Generation III products versus many other products on the market. An extended, fully logged and qualified burn-in test is performed on all Generation III products. Vigorous testing standards allow us to identify quality and batch issues early and ensure that when the products are shipped we are confident that they will perform as required.



During burn-in full charge and discharge cycles are tested and recorded.

COMPLETE PRODUCT RANGE

The new Generation III products provide a complete product range with new additions such as:

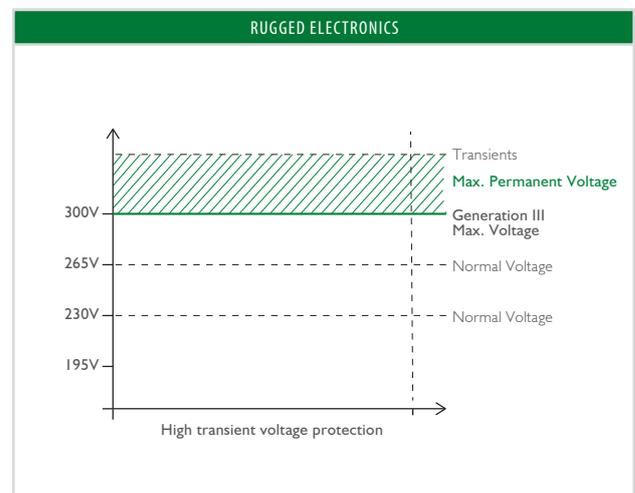
- Circular LED fittings
- IK10 exits and lighting
- IP65 weatherproof fitting
- LiFePO4 batteries

CONSTANT POWER LED DRIVER

In Generation III LED lighting is run in a constant power mode which allows constant light output during the discharge. This method also ensures consistent performance across different batches of LEDs where the forward voltage may differ. Constant power also means more predictable battery performance as the discharge power can be matched better to the battery.

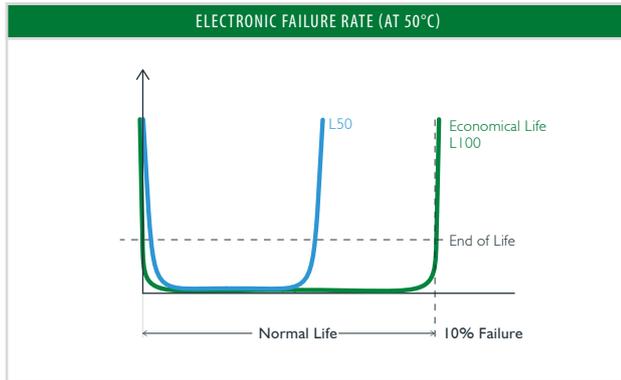
RUGGED ELECTRONICS

Generation III products include a selection of components such as higher rated electrolytic capacitors, input voltage protection, and wide operating voltages providing higher performance in rugged and demanding environments.



LONG SERVICE LIFE

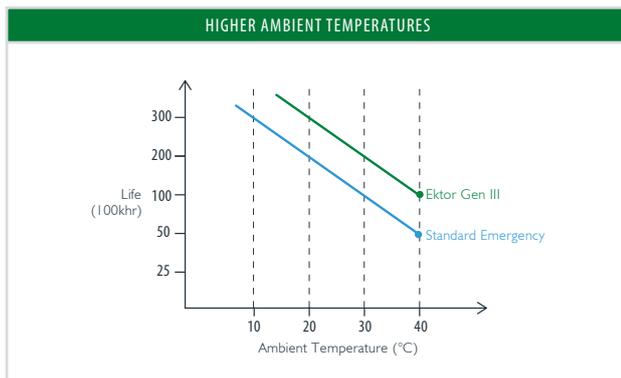
High ambient temperature ratings on LEDs, batteries, electronics and long life electronics which provide 100,000 hours at 50°C guarantee long service life.



Generation III products provide long service life at ambient temperatures of 40°C.

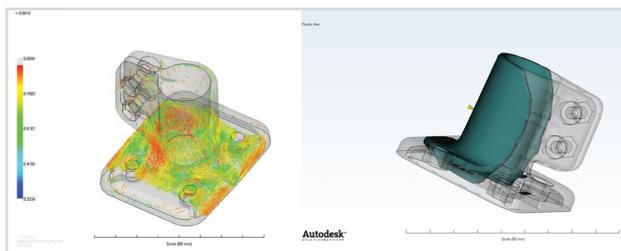
HIGHER AMBIENT TEMPERATURES

All electronics and LEDs are designed for operation in ambient temperatures of up to 40°C with batteries which operate up to 60°C. Increased ambient temperatures ensure high life expectancy in rugged and demanding environments.



POLYCARBONATE PLASTIC

High quality polycarbonate plastic is used in all Generation III products removing ABS plastic from the mix. Polycarbonate provides a higher strength product and doesn't produce the thick smoke that is normally produced by ABS and ABS + PC mixes when burnt. PC also provides better resistance to many chemicals found in specialised production facilities and farming sheds. For more information on the chemical resistance of the Generation III products consult the website.



Glass fibre directions and material fill simulations.

FULL TRACEABILITY

With quality comes full forward and backwards traceability allowing quality issues to be tracked, identified, and minimised.

MANUFACTURED TO ISO9001

The qualification to the ISO9001 quality system should not be understated. All Generation III emergency products are manufactured and audited to ISO9001 by TÜV Reinhardt, a leader in quality system approvals. This quality system allows us to deliver consistently and improve reliability which can not easily be achieved in products manufactured without a quality system.

BEST PERFORMANCE EMERGENCY PRODUCTS

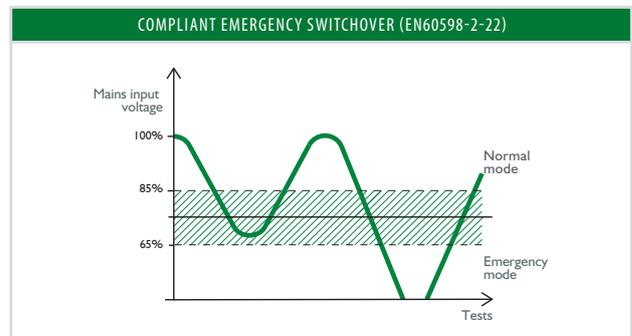
Generation III products have been designed to be the best performing products on the market today. Providing the best value, best energy consumption, optimal output and quality design, no shortcut has been taken in ensuring that our customers receive nothing but the best.

FAST FAILURE ANALYSIS

The smart nature of the Generation III product range allows your representative to provide fast and accurate lifetime analysis and reporting. This reporting system provides a method to quickly get to the bottom of a failure and also help with lifetime MTBF calculations and through life improvements.

FULLY COMPLIANT

Where compliant means fully compliant. Generation III products are fully compliant to the required safety, EMC, and performance requirements right down to the finite details. While products on the market can be found not to comply even to the simplest requirements of labelling, the Generation III products provide the best and most compliant range of products on the market today.



Generation III products provide long service life at ambient temperatures of 50°C.

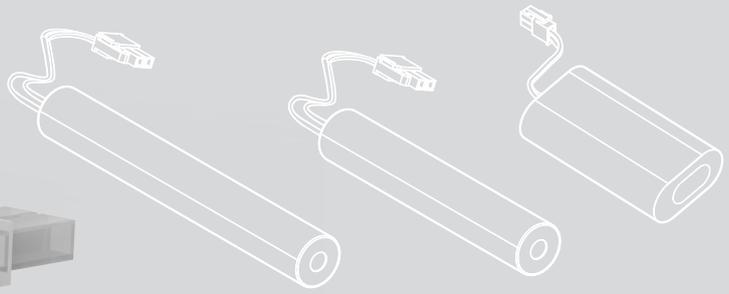
COMPLIANCE REOURCES

Certificates and information regarding compliance can be found on our website. Complying to AS2293 is only some of the requirements. A fully compliant product must also comply to the following:

Safety standards	AS60598.22
EMC standards	AS55015
Performance standards	AS2293.3



BATTERIES

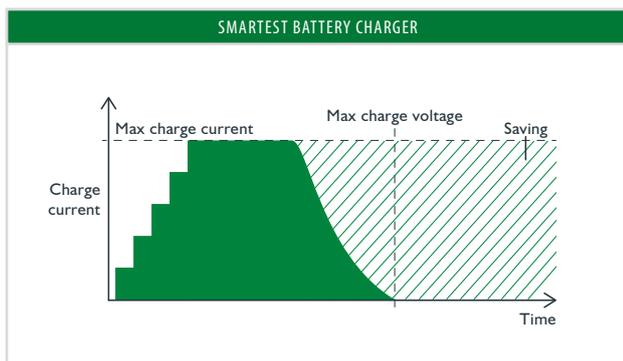


Most of our generation III products include LiFePO4 batteries, which provides an environmentally friendly choice.

SMART BATTERY CHARGE

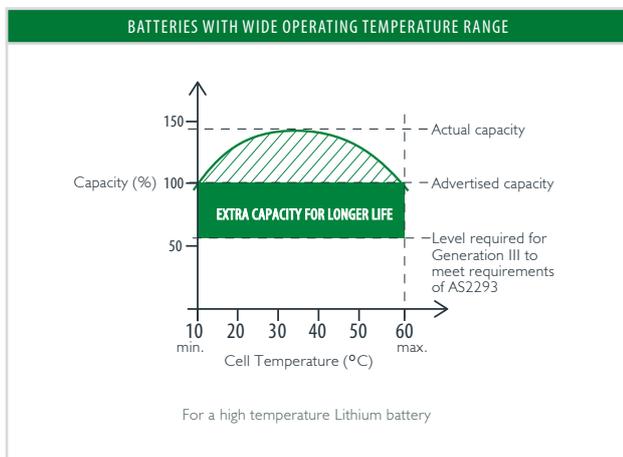
With the new generation of products comes the smartest emergency lighting battery charger to date. New battery charging technology employs soft start, multi-rate and multi-conditional battery charging algorithms. This technology squeezes the maximum life out of the batteries and also provides load management to your building.

Generation III implements smart charging specifically designed for Lithium batteries. It uses an optimal charge algorithm designed to maximise the charging efficiency whilst ensuring the battery is charged in a minimal time. The smart charge system continually monitors the battery to ensure it is always performing at it's peak and ready for the next emergency.



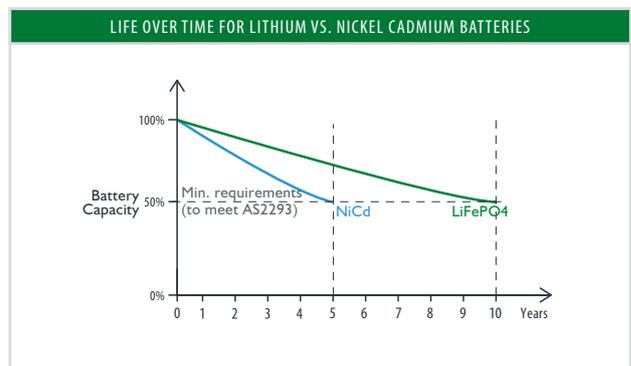
BATTERY PERFORMANCE

Battery performance is attended by environmental temperature. Generation III batteries have a wide temperature range which guarantees discharge performance from 10°C to 60°C.



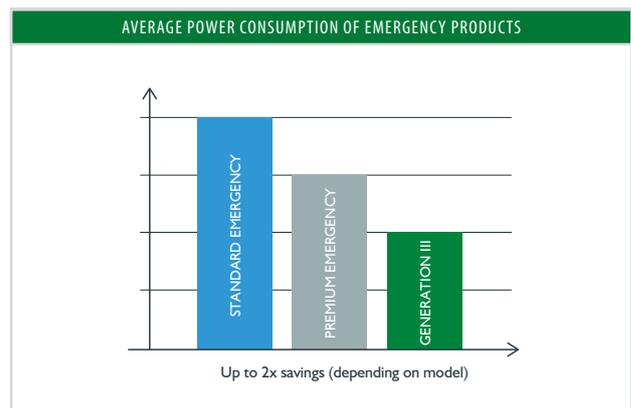
EXTENDED BATTERY SERVICE LIFE

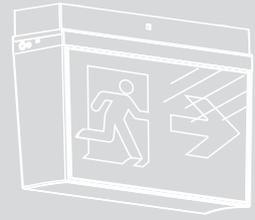
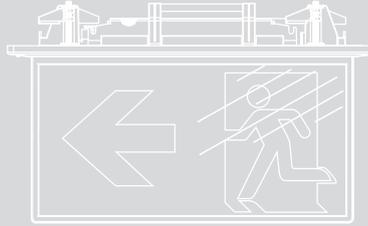
With the smart charger, Generation III products are able to control the charge rate to the batteries. By reducing the amount of time the batteries are charged reduces the chemical process and heat inside the battery, which serves to extend the battery life of the battery and saves on power.



LOWEST POWER CONSUMPTION

Utilising the best concepts, the Generation III inverters work hard to reduce overall power consumption. With smart battery charging the overall power consumption is considerably lower in comparison to competitive products.

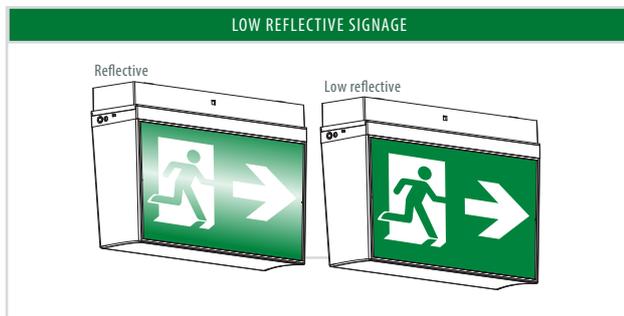




LUMINANCE

LOW REFLECTANCE

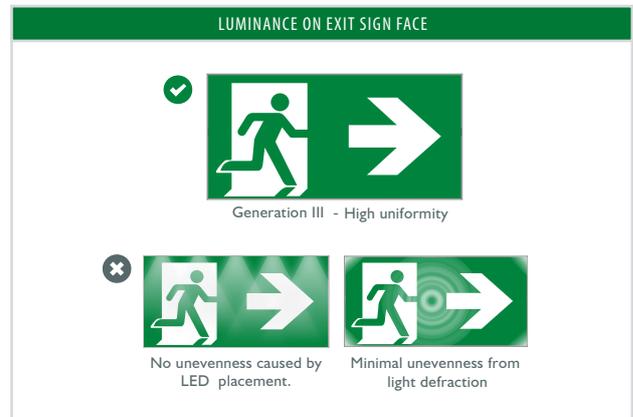
The design of Generation III decals are such that they provide a large reduction in the amount of external light reflected off the face. This reduction serves to ensure the decal can be seen even in the presence of close external light sources such as normal lighting and fire.



Low reflective decals provide great visibility even when next to fires and other light sources.

EXCELLENT LUMINANCE

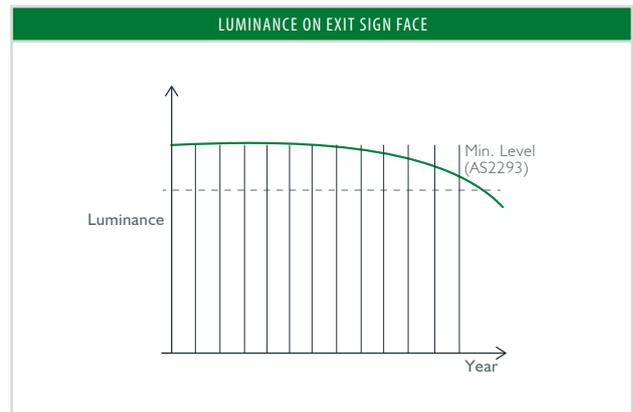
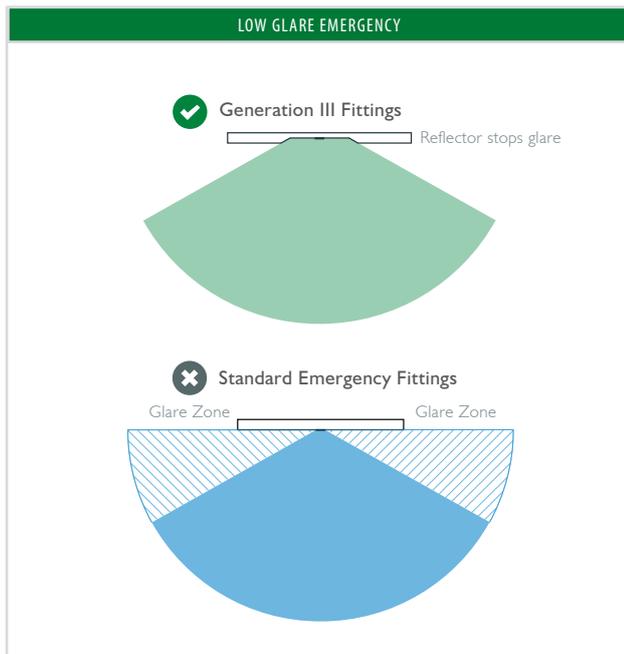
Generation III products have been perfectly designed to spread light evenly across the exit sign face. This evenness provides a high quality finish and ensures that as the lumen output reduces over the life of the product, the face will still comply to the minimum requirements of luminance.



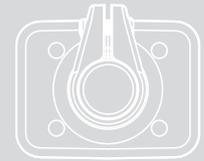
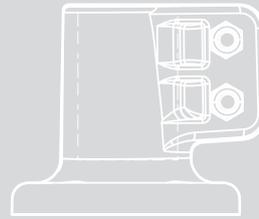
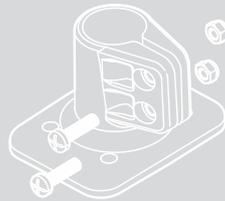
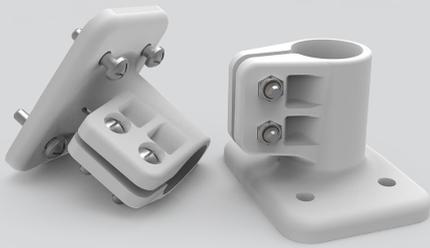
Great design also reduces the unwanted effects caused by LED lighting.

LOW GLARE FITTINGS

A newly designed reflector on the Ledfire III dish minimises unwanted glare. The new reflector design also serves to increase light output, optimising performance.



High quality design ensures good lumen maintenance giving long service life.



ADDITIONAL FEATURES

Generation III products provide even more mounting options and are easier to install.

WIRELESS UPGRADE

Upgrade any Generation III emergency device to allow Wi-Fi connections which support B/G/N networks. Use the Wi-Fi connectivity to connect with supported apps, Ektor wireless control systems and the Cloud.

CLOUD CONNECTED

Connect your Generation III products to the cloud with the use of our wired and wireless control systems. The cloud allows you to track, monitor and maintain your building from almost anywhere in the world. Gain real time data, maintain multiple buildings and run emergency tests with great ease.

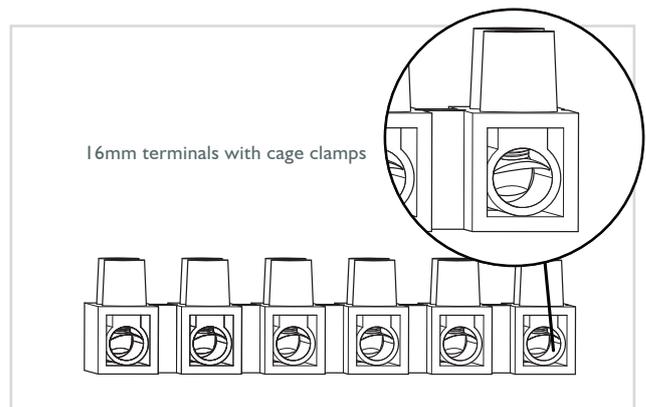


HIGH ACCURACY CONTROL

Flicker free precise control as maintained through the use of a 16bit 62.5khz chopped PWM controller and a unique two stage 12bit ADC. Through high speed PID control, both the battery charger and the LED driver provide optimum output.

LARGE 16MM TERMINALS WITH CAGE CLAMPS

On all hard wired Generation III emergency products, large 16mm² terminal blocks with cage clamps are used. Large terminal blocks allow easy hardwiring and looping of multiple supply cables while the cage clamp provides a quality high grip contact.



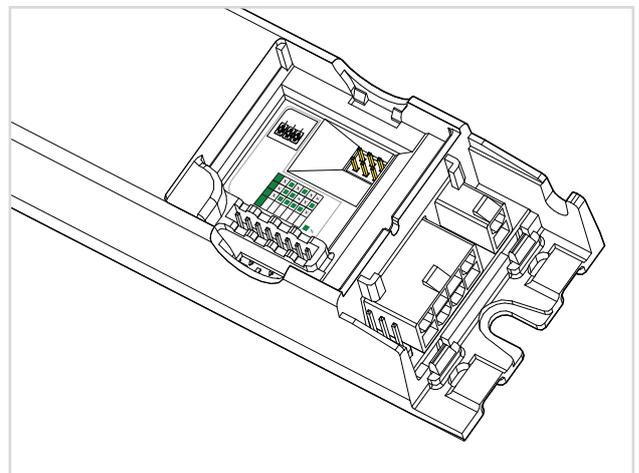
APP CONNECTED

Take your new Generation III device even further with a wireless adapter. Connect and download the android app to extend your functionality without a control system. Make testing and reporting easier minimising the time spent inside. Perfect for smaller installations which are ready to jump to the next level.



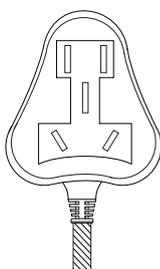
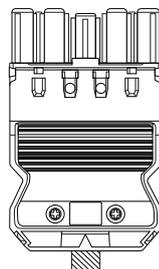
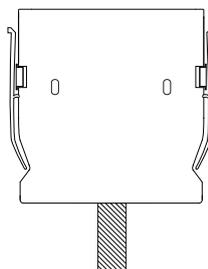
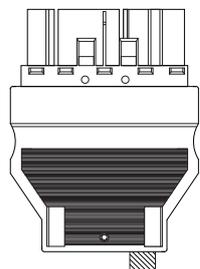
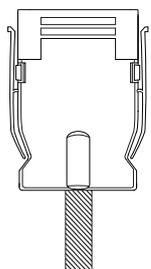
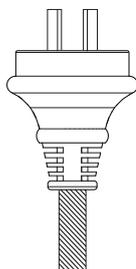
ADJUSTABLE DISCHARGE TIMINGS

For sites requiring a longer discharge duration such as high use areas or shopping centres, Generation III products have a selectable duration jumper allowing 2, 3, 4 or 8 hour durations.



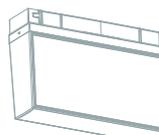
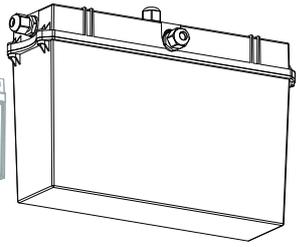
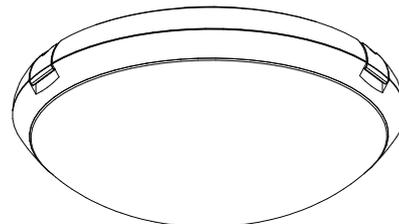
CHOOSE YOUR CABLING SYSTEM

With Generation III you are able to quickly and easily change cabling systems to be compatible with your buildings infrastructure. This modular method allows fast replacement of the device without the need to special order products with your needed cable system. Cordsets below can be ordered and attached to the inverter depending on the site requirements.

DALI OPERATION					STANDARD OPERATION
					
Wire by click	Wieland	CMS 5 Pin	Wago	CMS 6 Pin	Flex and Plug

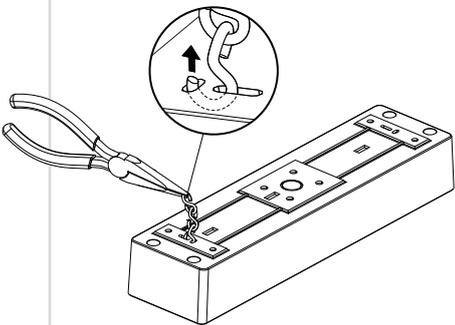
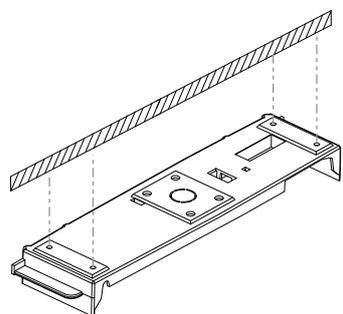
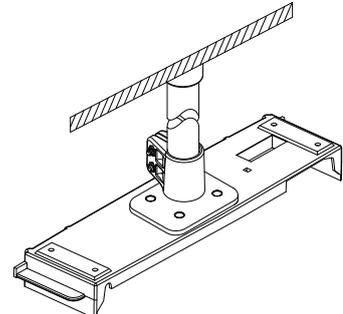
VANDALPROOF, IK10 AND IP65 MODELS

For those tougher and more demanding environments our new generation of products provide options for dealing with vandal-proof requirements, high impact areas requiring IK10 rating and harsh weather environments with IP65 rated products.

VANDAL PROOF, IK10 AND IP65 MODELS	
	
Mercury III	Mercury III Vandal- and Weatherproof
	
	Circular Weatherproof

MULTIPLE MOUNTING METHODS

Mounting this generation of products has just become a lot easier with support for jack chain, surface mounting and pole mounting. Mounting holes and locations are in convenient positions with easily removable covers, making the Generation III the best yet.

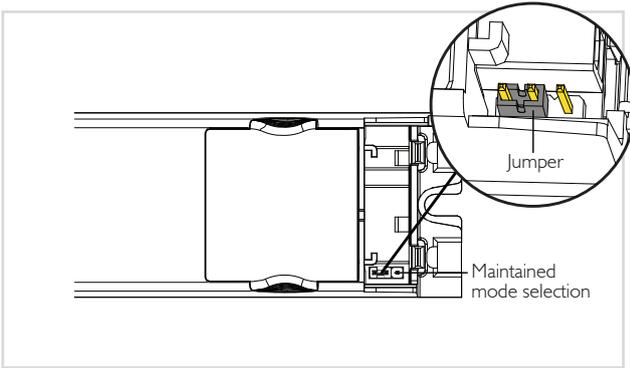
JACK CHAIN MOUNTING	SURFACE MOUNTING	ROD MOUNTING
		

SWITCH OR SENSOR INPUTS

All Generation III products are equipped with a switch input. This input can be used with either a switch or sensor to turn the light on or off during normal modes. This allows for more tailored control of site specific applications.

MAINTAINED MODE SELECTION

Users can select the mode of operation for the Ledfire III. If the inverter is using a switch input this is disregarded and not used.

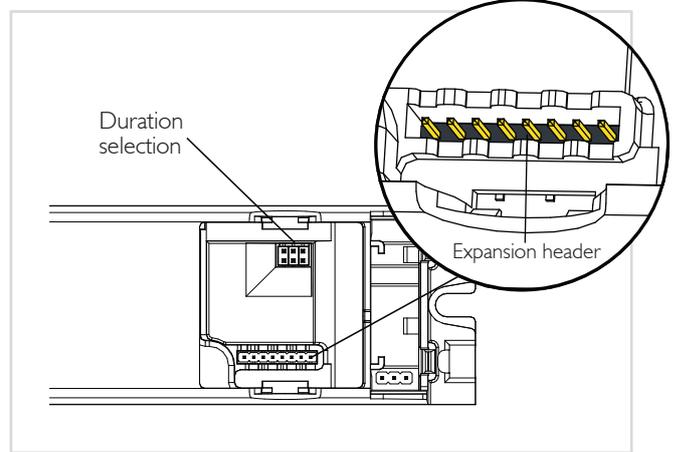


STATUS	INDICATOR	DESCRIPTION
	Maintained mode	Lamp is ON in normal and emergency operation
	Non-maintained mode	Lamp is only ON in emergency

EXPANSION HEADER & DISCHARGE SELECTION

Generation III products also include an expansion header which allows for smart devices such as a Wi-Fi daughterboard, sensors, easy commissioning modules and diagnostic tools to be installed.

The Ledfire III also supports a number of discharge ratings which can be selected by the user. The output from the LED scales based on the discharge rating.



NOTE: Additional costs may incur in regards to certain features displayed in this section.

“ Gen III is a complete product range
including weatherproof, high impact ratings
and long life Lithium batteries ”

GENERATION III: PRODUCT RANGE



CLAYMORE BATTEN



CLAYMORE BATTEN WEATHERPROOF



A SELECTION OF THE BLACK RANGE



PEARL WEATHERPROOF



PEARL WEATHERPROOF PRO



LEDFIRE III OEM RECTANGULAR



LEDFIRE III OEM CIRCULAR



CYCLOPS



TWINSPOT



RAZOR III 16M



RAZOR III 24M



LEDFIRE III



MERCURY III



MERCURY III WEATHERPROOF



LEDFIRE III SURFACE MOUNT



MERCURY III JUMBO 24M



MERCURY III JUMBO 32 M



MERCURY III JUMBO 40M

Generation III provides a large range of products to suit most installation types

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evolt
the electrical evolution