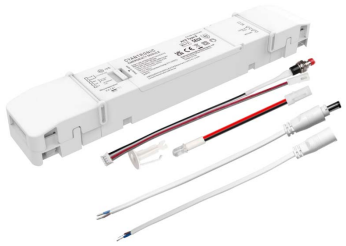
Product information

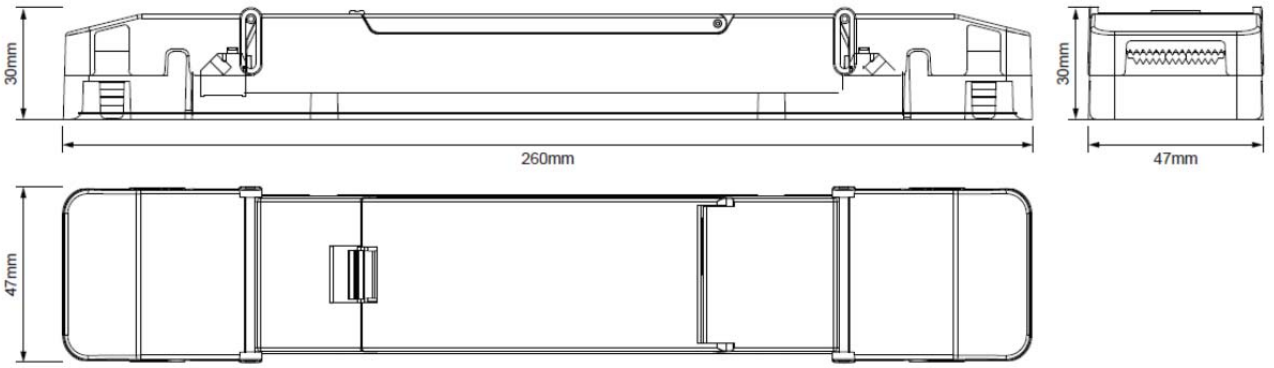
This emergency module with Automatic Self-Test Technology can be used independent with clip-on cable clamps for the LED luminaires with integrated LEDs. It is designed for installing within the fitting to provide a battery back-up supply in the event of a power cut. The emergency module requires a permanent live un switched supply to maintain the battery charge. In the event of a power cut the battery will supply the luminaire at a reduced output.

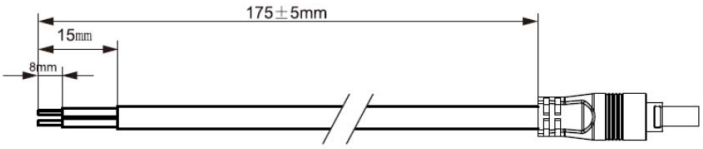


Automatic Self-Test technology that will perform regular automatic function and duration tests as required by
EN 62034, reporting the results via a bi-coloured LED indicator.

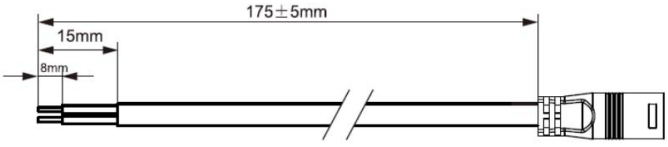
Emergency Unit	12NC	Technology	Capacity	Power	Duration	Nominal voltage	Warranty of the kit	Warranty of battery
EM300V ELP3 kit LV 6.4V 2000mAh LFP	912401483458	Lithium iron phosphate	2000mAh	2.5W	3H	6.4V	4 years	2 years

Dimensions

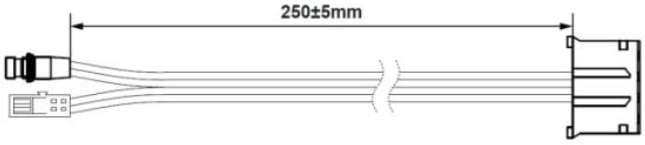




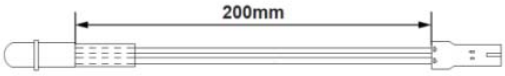
LED driver output cable



LED supply cable

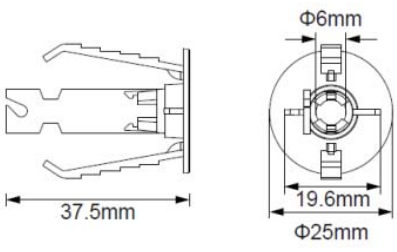


Test button cable



Standard indicator cable

Indicator holder



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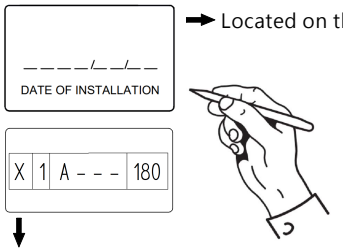
Keep for future reference: www.philips.com/lighting

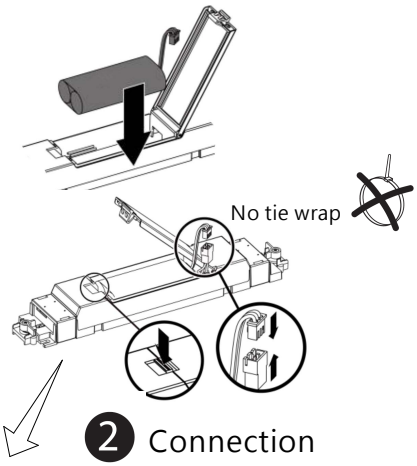
Installation of Emergency unit

1 Labels



Located on the battery

Stick to/ into the luminaire



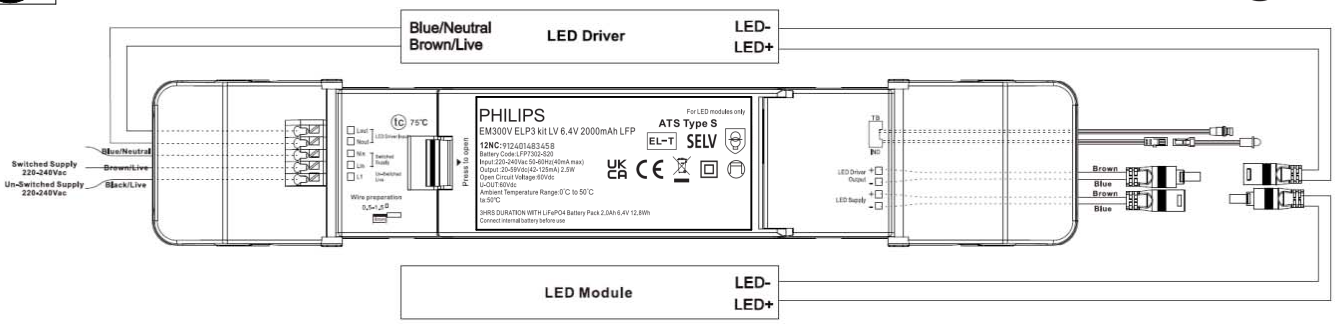
2 Connection

3 Log book

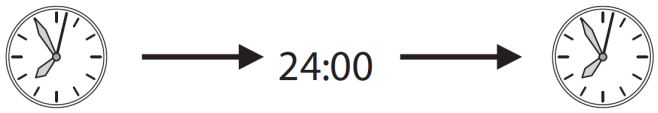
OFF

Emergency wiring

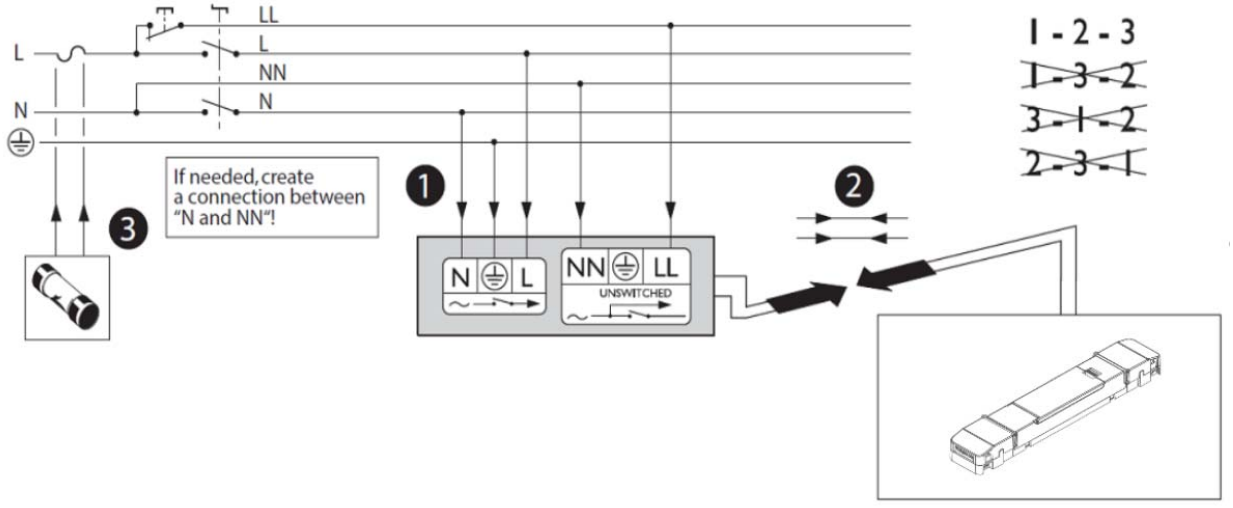
2



Charge time



Test high voltage max. 500V



Automatic Self-Test Emergency Module User Guide

Please read these instructions thoroughly before use and retain for future reference.
If you are in any doubt about using this product, please consult a qualified electrician.

Commissioning

• Commissioning takes place by connecting the battery and then the un-switched supply.
The battery must be connected first.
• The green LED will immediately flash 1 x second to indicate that there is a pending duration test.
• A duration test will occur at a random point between 24 hours and 48 hours after commissioning
to allow 24 hours for battery charging.
• Any faults found in the duration testing will be reported via the LED indicator, as detailed below.
• Disconnecting the un-switched supply and then the battery resets the emergency module,
clears all fault reports and forces a re commission when the battery and then power supply are reconnected.

LED indicator:

	Green	= System Healthy		Red	= Battery Charging Fault
	Green Flash 1 x Second	= Duration Test Pending		Red Flash 2 x Second	= Battery Duration Fault
	Green Flash 2 x Second	= Duration Test Running		Red Flash 4 x Second	= Lamp or Luminaire Fault
	Green Flash 4 x Second	= Functional Test Running			

Duration Testing (3 hours)

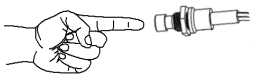
• An automatic duration test will occur at a random point between 24 hours and 48 hours after commissioning
to allow for battery charging.
• An automatic duration test will occur annually at a random point in the 52nd week of each year.
• A duration test will occur at a random point between 0 and 24 hours after pressing the manual test button for
5-10 seconds. Time will be added to allow the battery to charge if the battery has been charging less than 24 hours.
• A duration test may be delayed by other events, such as a power cut that interrupts the test or a lack of
charging time, in which case the green LED will flash 1 x second to indicate there is a pending duration test
that the emergency module has rescheduled.
• Any faults found in the duration testing will be reported via the LED indicator, as detailed above.
• A functional test will not override any faults reported by a duration test. A full duration test or re-commissioning
is required to clear any faults.

Functional Testing (<2 minutes)

• A short automatic functional test will occur every 7 days.
• A manual functional test will start immediately after pressing the manual test button for 1-2 seconds.
• Any faults found in the functional testing will be reported via the LED indicator, as detailed above.
• A functional test will not override any faults reported by a duration test. A full duration test or re-commissioning
is required to clear any faults.

Manual Testing

• Manual functional test: Press the manual test button for 1-2 seconds. A manual functional test lasting
<2 minutes will start immediately.
• Manual duration test: Press the manual test button for 5-10 seconds. A manual duration test will occur
at a random point between 0 and 24 hours after pressing the manual test button for 5-10 seconds.
Time will be added to allow the battery to charge if the battery has been charging less than 24 hours.



Pending Duration Tests

• A duration test may be delayed by other events, such as a power cut that interrupts the test or charging period,
in which case the green LED will flash to indicate there is a pending duration test that the emergency module
has rescheduled until charging is complete.

Periodic testing
Periodic tests must be performed according to EN50172: 2004, clause 7.2.3 and 7.2.4.
The tests could be done by complete disconnection of the luminaire.

Lamp or Luminaire Fault
• Turn off the supply and replace or correct the fault with the lamp or luminaire, and then reconnect the supply.
• Press the manual test button for 5-10 seconds. A manual duration test will occur at a random point between 24 and 48 hours later to allow the battery to charge fully.
• If the battery and power have been disconnected the module will re-commission and automatically test the replacement.
• A successful functional test will not override any faults reported by a duration test. A full duration test or re-commissioning is required to clear fault reports.

Battery Fault
• Turn off the un-switched supply to the emergency module and replace the battery, and then reconnect the supply.
• If the fault was because the battery was not connected, the un-switched supply must still be turned off when connecting the battery to clear the battery fault.
• The emergency module will re-commission and so automatically test the replacement at a random point between 24 and 48 hours after commissioning to allow for battery charging.

Lifetime
The batteries have a life time expectancy of 2 years when maintained properly.
The emergency unit should be replaced when it no longer meets the rated duration of operation after the corresponding recharge period.

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