

ESCAP SELF-CONTAINED LUMINAIRES WITH 10 YEARS WARRANTY



Environmental protection forms a part of our shared social responsibility. Here at Teknoware, we do our part by lowering emissions. The best way to do this is with our own award-winning, innovative know-how.

ESCAP is a technology pioneer in emergency lighting

Emergency lighting solutions are greatly influenced by the emergency power supply, traditionally the battery, as well as its location. In a central battery system the centralized batteries supply the luminaires, making the system easy to service and test. In a self-contained system, each luminaire contains its own battery, which makes planning and installation of the system easy and flexible, thanks to a simple cabling. In addition to the harmful substances in their batteries, self-contained luminaires have the disadvantage of the limited lifetime of the batteries. In addition, the changing of the battery of the self-contained luminaires is very laborious.

ESCAP technology, combined with the wireless Aalto Control remote monitoring system, combines the advantages of central battery systems and self-contained luminaires, and eliminates their disadvantages.

In ESCAP luminaires the electrical energy required in the emergency mode is not stored into the battery's electrochemical process, but into very high capacitance low voltage super capacitors. As early as in their presentation year of 2008, ESCAP luminaires were awarded the "Innovative Product Award" at the Electricity and Telecommunications fair STVAV in Jyväskylä, Finland. Since then, hundreds of emergency lighting systems with ESCAP emergency and exit lights have been implemented in various locations, in many different countries. ESCAP self-contained luminaires can be connected to a wireless Aalto Control remote monitoring system, which means that also their supervision is easy.

Lifetime of ESCAP luminaires is over 10 years

ESCAP technology offers over 10 years of freedom from maintenance for luminaires. By making use of super capacitors, ESCAP luminaires' life time is over 10 years. Teknoware undertakes this by offering ESCAP emergency and exit lights a 10 year warranty program,

which applies to the typically wearing parts of the luminaires, i.e. emergency power source (super capacitors) and light sources (leds).

ESCAP luminaires are environmentally friendly

ESCAP emergency and exit lights do not contain any harmful substances. Unlike batteries, the super capacitors and the complete ESCAP luminaires can be recycled as standard electronics waste. ESCAP is truly the environmentally friendly solution.

ESCAP emergency and exit lights are suitable for Nordic conditions

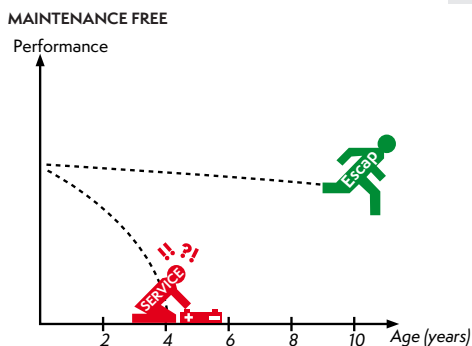
Unlike batteries, super capacitors used in the ESCAP luminaires also work in the cold. ESCAP luminaires have a very wide operating temperature range -25°C...+ 35°C so they can also be used outdoors, for example in shelters and in parking halls.



Look at ESCAP luminaire warranty conditions

<http://www.teknoware.com/en/emergency-lighting/escap-emergency-and-exit-lights>

- ESCAP technology eliminates the problems with battery-powered luminaires, such as the limited life time of batteries and the laborious maintenance work of changing the batteries.
- ESCAP emergency and exit lights have a 10 year warranty program
- The life time of ESCAP luminaires is more than ten years.
- ESCAP luminaires are completely maintenance-free throughout their entire life cycle.
- ESCAP luminaires are environmentally friendly and can be recycled as standard electronics waste
- ESCAP luminaires are using super capacitors for energy storage, thereby reducing charging time, compared to traditional battery technologies.
- ESCAP luminaires' energy consumption is very small, in practice with a fully charged super capacitor there is no loss in power at all.
- ESCAP luminaires have a very wide operating temperature range $-25^{\circ}\text{C} \dots +35^{\circ}\text{C}$ so they can also be used outdoors, for example in shelters and in parking halls.
- ESCAP emergency and exit lights can be connected to the wireless Aalto Control remote monitoring system



Teknoware's ESCAP luminaires received the Innovative Product Award at the Electricity and Telecommunications fair STAV in 2008.