

**TECHNICAL SPECIFICATIONS**  
**EMERGENCY EXIT LUMINARIES**  
**HAVANA S**



When there is power, the battery pack will be charged by the automatic charging circuit. When the power is turned off, the lighting element will automatically switch off without any discharge in case of any power interruption, thus ensuring the continuity of the lighting and ignition on the tag value at the end of the burning period will not lose the efficiency of the initial light. When the power is restored, the system is switched off and the lighting element will continue without burning, and at the same time the charging circuit will charge the battery and charge the buffer.

**Mains supply power:** Led 2.4W;2.7W On charge

**Light Output Power:** Mains/non-maintained;18 Led 110/110lm

**Operating temperature:** -5°C..45°C

**Body Temperature:**75°C

**Visibility Distance:**20m

**Body:** Dust, moisture and insect resistant polycarbonate body.

**Assembly:** Mounting in wall or ceiling with screw from back, 220V supply voltage must be provided by socket connection. The body cover and the reflectors should be manufactured so that they can be easily opened and closed with clips. If necessary, an additional spring should be added so that it can be mounted on a suspended ceiling.

**Pictogram:** Can be seen 145mm high 20m denier painted with silk screen technique (according to DIN 4844 or ISO1838 norms).Ral6032 will be the white arrow and white running man on the green ground.

**Led:** The energy saving will be maximum and 9 pieces Midpower 65lm Osram Duris s5, Seoul 5630 MJT, Cree ML-E Led. Led Life -50,000 hours @ Ta x3d 40 ° C.

**Light Color:** 6500K ±%5 Light should be cold white color.

**Driver:** Driver OnBoard PFC>0.95, TH<%15 ACD, ACDD

**Optical:** Light output angle120°

**Emergency Resistance**

**Time:** 1 or 3 hours

**Battery** Resistant to high temperature, 1.2V, 800mAh or Ni-Cd group.

**Inventors:** It must have an inverter circuit that will cut the current and charge it for at least 20 hours before completely discharging the battery.

**Protection Class:** IP20

**Electric Class:** Class-II

**Protection:** Open circuit, short circuit and power supply protection; electronic circuit with low voltage, overcharging and full discharge protection for the battery.

**Insulation:** 220V voltage points and should be isolated independently from the entire electronic body.

**Weight:** 645gr

**Product Details:** When installing the internal components, the adhesive material and the additional connections should not be soldered manually. Led PCB internal connection must be provided with terminal block connector. Cable used in internal connections must be PVC resistant to 90 ° C temperature. LEDs must be hot soldered automatically with SMD (surface mounted) technology without touching the PCB. Each product must be individually packaged and must include a label with the manufacturer's name, product model and specifications on the package. Each product's detailed instruction manual should be in box. All product should have 3 year warranty.

**Test:** The fitting is designed, tested and produced in accordance with TS EN 60598-2-1 standard. The manufacturer must have TSE EN ISO 9001: 2015 management system certification..Product must have CE declaration and TSE certificate.

LM80 and TM21 Life test reports are sent for led light source. LM79(TS EN 13032) Photometric test reports are sent for Led luminaries.

IEC TR 62471 (Bulb and bulb systems Photobiological Safety) is been reports.

Led manufacturers must have ESD spesification.

Each product is test properly TS EN 60598-1 and report by manufacturer.

It must be tested and reported by the manufacturer according to TS en 60598-1 Annex-Q for each product. For each product, a combustion test should be carried out at 100% performance, while at least 2 hours of continuous operation.

Product tests should be carried out by accredited laboratories to turkak.

The turkak accreditation certificate of the laboratory must be requested.

Eulumdat files must be delivered.

**Standarts:** Conforms to EN 60598-2-22, EAC and CE standards.