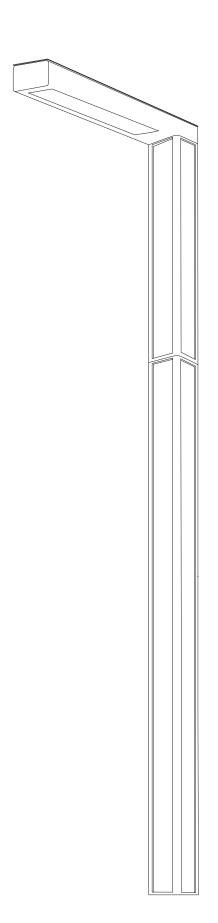






merkur150



1

## merkur150

#### SELF-SUFFICIENT SOLAR LED STREET LAMP

#### **APPLICATION**

The merkun50 stands out for its exceptional, cubic and modern design and guarantees a secure supply in all different climate zones. The merkun50 solar light is a solar powered LED street lamp, which is used in regions without electrical infrastructure or in which it would not be economically feasible to implement one. The luminaire is especially used in areas that demand a secure supply and excellent light quality even in dim conditions.

The merkur150 is able to generate sufficient energy via the diffuse light component in regions with poor weather (snow, fog, etc.) due to the cubic aluminium construction with 4 photinus high performance photovoltaic modules. The vertically arranged modules prevent snow from accumulating on it in winter. A sophisticated energy management system guarantees secure functionality over several nights even in poor weather conditions. The merkur150 is best suited for residential streets, side streets, cycle routes and footpaths as well as car parks etc. in accordance with DIN EN13201 due to its light output.

#### **OPERATION**

The integrated battery is loaded via 4 photinus high performance photovoltaic modules and powers efficiently the LED array during the night.

#### **OPTIONS**

Anthracite is our standard colour for the merkur150. Nevertheless, the luminaire can be ordered in all RAL colours for large projects and at an additional charge.



# 2

### **TECHNICAL DATA**

#### **SOLAR MODULES**

**Solar modules** Monocrystalline silicon cells with exeptional

efficiency specially processed by photinus.

Efficiency 21.5 %

Max. performance 150 Wp / 4 solar modules,

of the energy column Pmpp they are also charged up in cloudy conditions

#### **BATTERY (IN THE POLE)**

**Battery** LiFePO<sub>4</sub> | 12,8 V | 36Ah (46oWh)

Operating temperature - 20°C bis + 60°C

**Life of battery** approx. 10 years

Protection class IPX8

#### **LIGHTS**

Max. luminous flux 8000 lm

(Bregenz site / 47 degrees latitude /1400 lm / V5)

Max. Efficiency 200 lm/W

LED module / max. watts 100 W

Max. back-up time 18 days (Bregenz site, 47 degrees latitude: 7 days)

"Intelligent plus Modus" 18 days

(Bregenz site: 12 days)

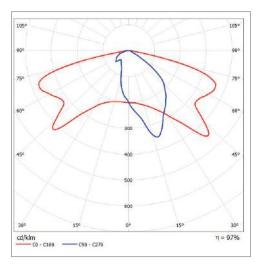
Colour temperature 4000 K

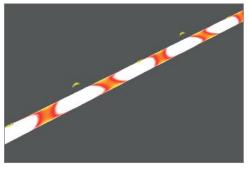
Life of LED > 100 000 h

Protection class IP67



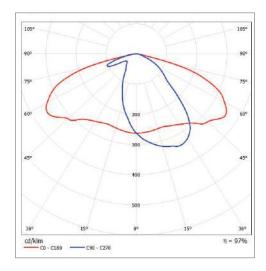
#### **OPTIC**

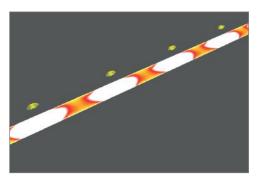




**SCL OPTIK** 

optimal for streets with a width from 2m to 4m (cicle paths, walkways and small streets)





**DWC OPTIK** 

optimal for streets with a widht from 4m to 7m (Residential roads, secondary roads and main roads, depending on location)



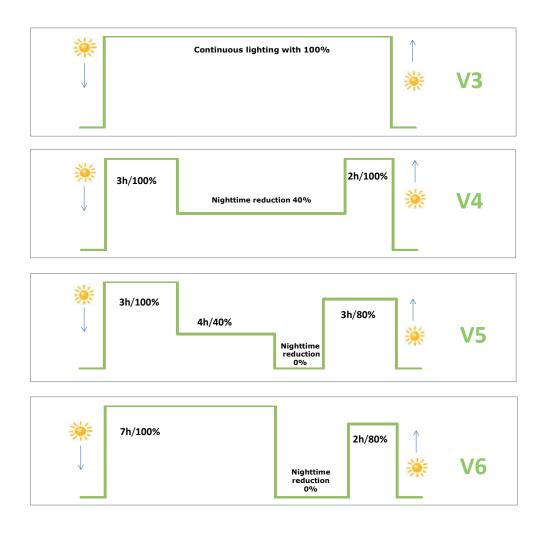
The special photinus LED luminaires combine the advantages of SCL and DWC optics to achieve optimal light distribution.

Additional optics for special applications are possible upon request.



#### **ENERGY AND TIMEMANAGEMENT**

#### Standard factory setting V<sub>5</sub>





#### **WARRANTY**

Manufacturer's warranty 2 years (incl. battery)

PV module warranty

(The warranty period starts on the date of production)

2 years with 100% product guarantee 5 year warranty at 90% minimum output 10 year warranty at 80% minimum output

(subject to technical modifications)

#### **DIMENSIONS**

Total height from ground level 4930 mm

Height of light from ground level 4800 mm

Height of vandalism protection 3600 mm

Height of energy column 1200 mm

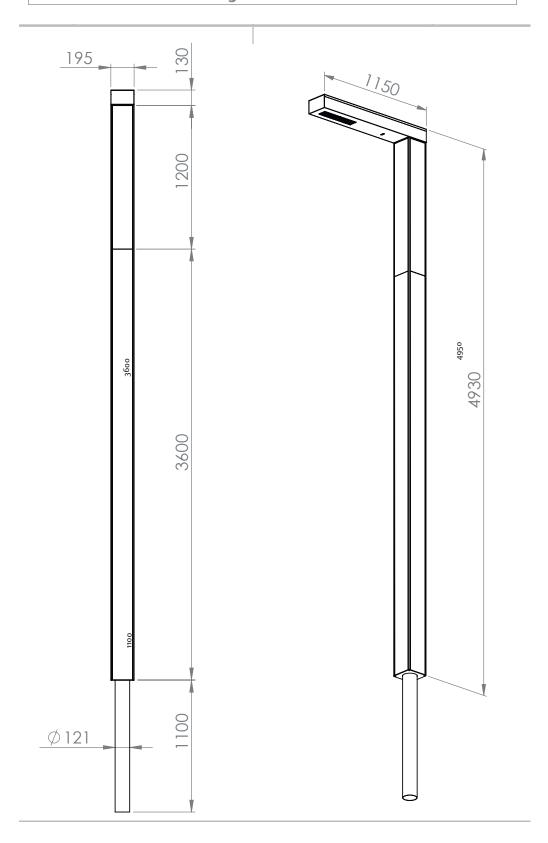
Length of pole under ground 1100 mm

Total length of pole (galvanised steel)



6000 mm

#### **DIMENSIONS MERKUR150**

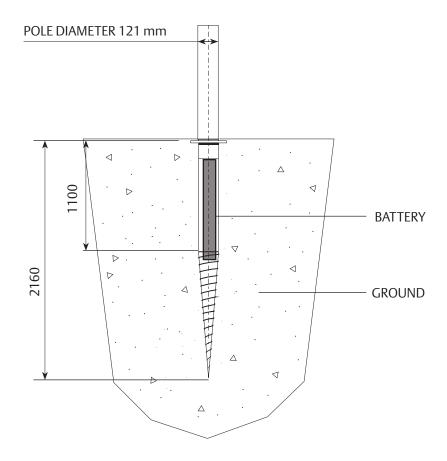


# 3 OPTIONS FOR ASSEMBLY

#### **OPTION 1 - KRINNER GROUND SCREW**

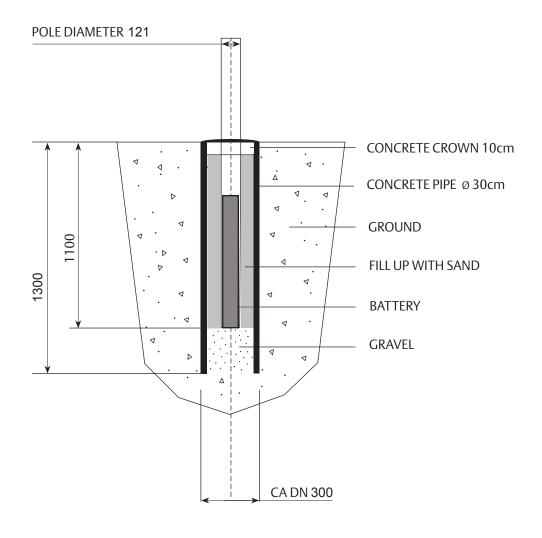
#### **KRINNER Ground Screw**

Art. 25513: KSF E194x2100-RG140-SMU151





#### OPTION 2 - PIPE FOUNDATION







Photinus GmbH & Co KG www.photinus.at

Commercial Register: FB 278478b UID: AT U62806823