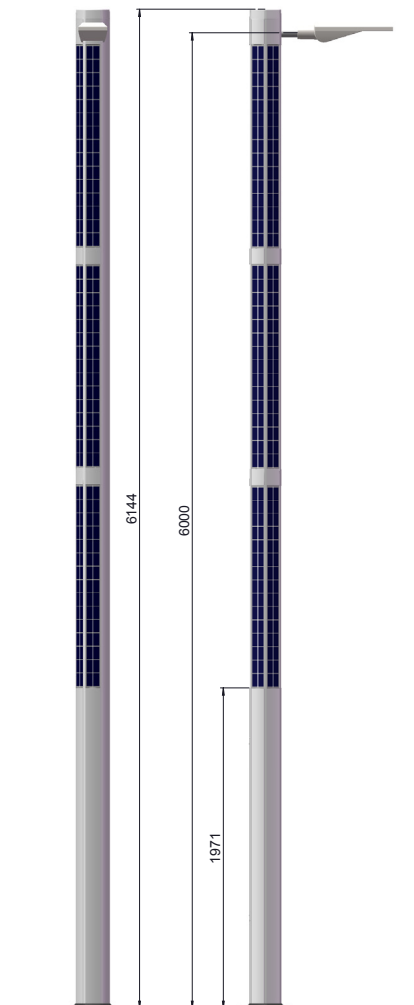


# DATA SHEET

# SKYLINE



#### PRODUCT DESCRIPTION

SKYLINE is a stand-alone, self-sufficient solar cell column for professional exterior LED lighting systems. SKYLINE is flexible and accommodates the most common LED luminaires.

The integrated controller management system [LCC] allows management of the individual lighting profile and the tracking of operating data, alarms and capacity performance.

The Hexagon column is covered by solar cells on 1 to 6 sides, and in heights from 3,5 meters to 10,5 meters for the individual designed installation for maximum uptake of direct and reflected sunlight all day long with a high level of operating reliability.

#### MATERIALS

Due to the choice of materials such as, recyclable aluminum and Glass, SKYLINE is a clean, eco-friendly product:

- 100% carbon-neutral operation
- 18% Polycrystalline solar cells
- 100% recyclable materials
- Integrated LCC control
- Remote access and monitoring

#### CUSTOMIZE YOUR SKYLINE

The SKYLINE column can be customized to meet your requirements, for instance with optional operation modes or optional luminaires.

From 2 to 36 solar modules. Total height from 3,5-10,5 meters.

#### BENEFITS

- 100 % green solution
- No expenses for cabling - 100% stand alone
- No costs for operation
- Aesthetic design

COLUMN	
Total height	3,5-10,5 m ( Bollard 1,1 m)
Column	Extruded aluminum profile Ø200/3 mm
Aluminum parts (recyclable)	Natural Anodized 20my (25 my opt.). Aluminum EN AW 6063-T6.
Hatch	400 x 90 mm / 520 x 90 mm
Total weight (kg)	60-120 kg
EC Certificate of Conformity	EN 40-6/CE

SKYLINE PV MODULES	
Technology	Polycrystalline 18% Silicium cells
Shadow protection	Integrated BPD
Dimensions	1656 x 88 mm / 836 x 88 mm
Module peak output	11-22 Wp (28W-504W total per column)
Expected lifetime / functional warranty	20 years
Solarcell protection cover	3 mm tempered glass
Operation temperature	-20°C to + 85°C

LUMINAIRE	
Type	Wide range of standard luminaires
Technology	LED
Numbers of LED	6-60 pcs.
Wattage	1-130W

BATTERY	
Technology	AGM Gel, 12 volt 100Ah (optional NiMH 12V)
Battery Dimensions	330x172x222 mm /31,6 kg (AGM/GEL)
Energy capacity	1200-7200Wh
Operating temperature	-15°C- + 50°C (NiMH: -15°C to 65°C)
Expected lifetime	5 years (NiMH: 10 years)

CONTROL UNIT (LCC)	
Operation mode	Stand alone, safe, active
Remote Access	WiFi / MiWi
Operation voltage	12V
Operation temperature	-40°C - + 70°C
Luminaire	LED max. 240W dimmable
Time control	365 days pre-programmed for location / astronomical clock
Charge control	MPPT direct current limited max 250 Wp
LED driver	Programmable 50-2000 mA constant current