

DATA SHEET

PLECTRE SUN



PRODUCT DESCRIPTION

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

The integrated controller management system [CMS] allows management of the individual lighting profile and the tracking of operating data, alarms and capacity performance. The Triangular column is covered by solar cells on 1 or 2 sides 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, PLECTRE SUN is a clean, eco-friendly product:

- 100% carbon-neutral operation
- 18% Monocrystalline solar cells
- 100% recyclable materials
- Integrated CMS light control
- Remote access and monitoring [optional]

CUSTOMIZE YOUR PLECTRE SUN

The PLECTRE SUN column can be customized to meet your requirements, for instance with optional operation modes or optional luminaires. From 3 to 10 solar modules. Total height from 3-12 meters.

BENEFITS

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

COLUMN	
Total height	3-10 m (Bollard 1 m)
Column	Extruded aluminium profile Ø250/4 mm/6 mm
Aluminum parts (recyclable)	Natural Anodized 20my (25 my opt.). Aluminum EN AW 6063-T6.
Hatch / optional USB port	400 x 80 mm
Total weight (kg)	60-120 kg.
EC Certificate of Conformity	EN 40-6/CE

BATTERY	
Technology	AGM Gel, 12 volt, 100 AH. VRLA
Battery Voltage	330x172x222 mm /31,6 kg
Depth of discharge	Calculated to max. 25% pr. cycle
Operating temperature	-15°C- + 50°C
Expected lifetime / functional warranty	5/4 years
Certificate	CE 1188 / 29410
Recyclability	97% recyclable (EC 2006/66)
Optional technologies	AGM, Lead-Acid, Lead-gel, Ni-Mh.

CONTROL UNIT AND POWER MANAGEMENT SYSTEM	
Operation mode	Stand alone, Safe, Active, basic and Remote
Operation Voltage	12V
Operation Temperature	-40°C - + 70°C
Luminaire consumption	250W max. dimmable
Time control	365 days pre-programmed for location / astronomical clock
Charge control	Direct current limited max 250 Wp
LED driver	0 mA - 2000 mA constant current
GPRS WEB Connection	850/900/1800/1900 MHz
Control unit access	USB port. Web connection optional.

SOLAR MODULES	
Technology	Monocrystalline 19,6% Silicium cells
Dimensions	1590 x 166 mm (min. 3 - max 6 modules per side)
Module peak output	44Wp (120-240Wp per side)
Solarcell protection cover	3 mm tempered glass
Operation temperature	-20°C to + 85°C
Certificates	IEC 61215/ IEC 61730 1 and 2

LUMINAIRE	
Type	Wide range of standard luminaires
Technology	LED

FOUNDATION	
Weight	650 kg.
Dimensions	500 x 600 x 1000 mm
Material	Concrete