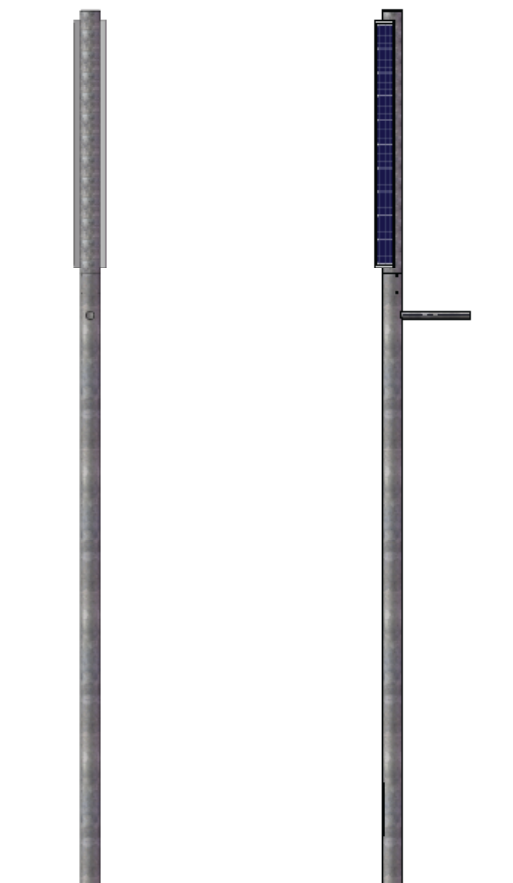


## DATA SHEET

# PRIESS LASER SUN



### PRODUCT DESCRIPTION

LASER SUN is a stand-alone, self-sufficient solar cell column for professional exterior LED lighting systems. LASER SUN 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 column is round and covered with solar cells on one or two of the sides, depending on energy demand and geographical placement. It is also possible to have the solar panels installed all around the Laser Sun column, which will give a triangular look.

### MATERIALS

Due to the choice of materials such as recyclable galvanized steel and tempered safety glass in front of the solar cells, LASER SUN a clean, eco-friendly product:

- 100% carbon-neutral operation
- 19,6% Monocrystalline solar cells
- 100% recyclable materials
- Integrated CMS light control
- Remote access and monitoring [optional]

### CUSTOMIZE YOUR LASER SUN

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

From 3 to 12 solar modules. Total height from 3-14 meters.

### BENEFITS

- 100 % green solution
- No expenses for cabling - 100% stand alone
- No costs for maintenance and operation
- Extra robust because based on galvanized steel column
- The column can be coated if requested

<b>COLUMN</b>	
Light source height (LSH)	3,6 m
Diameter	Ø159
Total weight	103 kg
Installation	Mounted on base plate
Steel parts (recyclable)	Hot dip galvanized, EN 1461. S235 - 355
Service hatch	85 x 140 mm, security lock optional
EC Certificate of Conformity	EN 40 -5 / CE
Wind classification	Average 27 m/s
<b>SOLAR MODULES</b>	
Solar module pr. column	Up to 10 units
Dimensions of solar modules	1700 mm
Technology	Polycrystalline, 19,6 % Silicium solar cells
Peak power output pr. panel	Typical 46 WP
Lifetime	20 years functional warranty (80%)
Solar cell cover, protection class	3 mm tempered glass
Certificates	IEC 60904
Operating temperature	- 40 °C (min.) to 85 °C (max.)
<b>BATTERY</b>	
Technology	AGM Gel, 12 volt, 100 AH. VRLA
Battery Voltage	330x172x222 mm /31,6 kg
Depth of discharge	Calculated to max. 35% 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	Ni-Mh.
<b>CONTROL UNIT AND POWER MANAGEMENT SYSTEM</b>	
Operation mode	Stand alone, Safe, Active, basic and Remote
Operation Voltage	12V
Operation Temperature	-40°C - + 70°C
Time control	365 days pre-programmed for location / astronomical clock
Charge control	Direct current limited max 250 Wp
LED driver	50 mA - 2000 mA constant current
GPRS WEB Connection/WIFI	850/900/1800/1900 MHz/2,4GHZ
Control unit access	USB port. Web connection optional.
<b>LUMINAIRE</b>	
Type	Wide range of standard luminaires
Technology	LED
<b>FOUNDATION</b>	
Weight	650 kg.
Dimensions	500 x 600 x 1000 mm
Material	Concrete