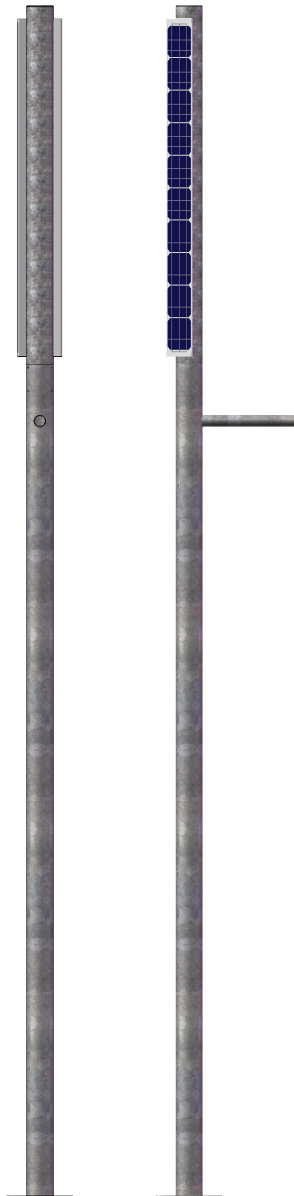




DATA SHEET

PRIESS LASER SUN



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 3-12 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

COLUMN

COLUMN	CYLINDRIC Ø159 / 4 MM /S235 / S355
STANDARD FINISH	HOT DIPPED GALVANIZED
STANDARD	EN 12944/ISO 1461
TOTAL HEIGHT	3 - 12 METER
TOTAL WEIGHT	100 - 400 KG
CERTIFICATE OF CONFORMITY	EN 40-5/EN 10-90

BATTERY

STANDARD MODEL	AMG GEL, 12 VOLT 100AH
DIMENSIONS/WEIGHT	330 X 172 X 222 MM /31,6 KG
OPERATING TEMPERATURE	-20°C - + 50°C
LIFE CYCLES	2400 CYCLES AT MAX. 33% DOD
RECYCLABILITY	97% RECYCLABLE (CE 2006/66)
AUTONOMY	2-10 DAYS
ALTERNATIVE TECHNOLOGY	NIMH, LIFEPO4

CONTROL UNIT AND POWER MANAGEMENT SYSTEM

OPERATION MODE	STAND ALONE, SAFE, ACTIVE
BATTERY VOLTAGE	10-14,2 VDC
OPERATION TEMPERATURE	-40°C - + 85°C
CHARGE CONTROL	MPPT 6-40 VDC, 15A
LED DRIVER TYPE	INTEGRATED BOOST CONSTANT CURRENT
LED DRIVER SPEC.	NFC PROGRAMMABLE, 250W, 130 VDC, 2000MA
LED DIMMING	0 - 100%
DATA LOGGING	INTERNAL/CLOUD STORAGE
DATA ACCESS	USB/WIFI/GPRS
POWER MANAGEMENT	365 DAY CALENDAR, ASTRONOMICAL CLOCK

LASER SUN SOLAR MODULES

TECHNOLOGY	MONOCRYSTALLINE >19,6%, 3 MM TEMPERED GLASS
SHADOW PROTECTION	INTEGRATED BPD
DIMENSIONS	1626 X 166 MM
WATT PEAK	52 WP
EXPECTED LIFETIME	>20 YEARS
OPERATION TEMPERATURE	-20°C - +85°C
STANDARD	IEC 60904

LED LUMINAIRE

TYPE	WIDE RANGE OF STANDARD LUMINAIRES
TECHNOLOGY	LED, SERIAL AND PARALLEL
WATTAGE	10-250W

FOUNDATION

WEIGHT	650 KG.
DIMENSIONS	500 X 600 X 1000 MM
MATERIAL	CONCRETE