DATA SHEET
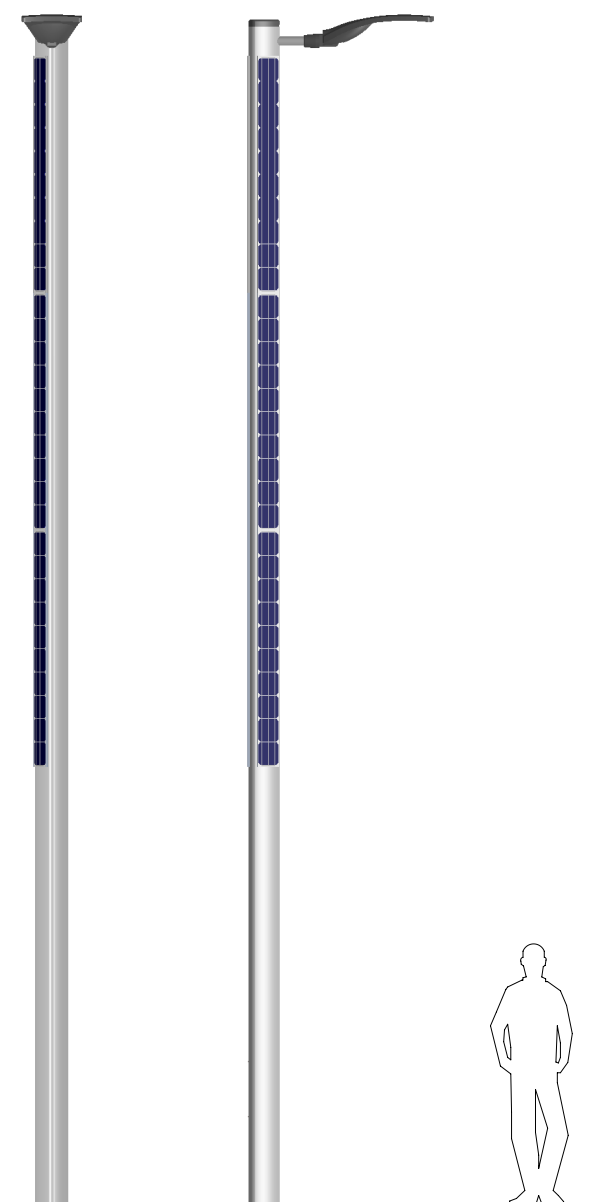# PRIESS PLECTRE SUN

DESCRIPTION
Plectre Sun is a stand-alone, self-sufficient solar cell column for profes-
sional exterior LED lighting systems. Plectre Sun is flexible and accommo-
dates 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, 2 or 3 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
- Min. 19,6 % Monocrystalline solar cells
- 100 % recyclable materials
- Integrated CMS light control
- Remote access and monitoring [optional]

CUSTOMIZE YOUR PLECTRE SUN
The Plectre Sun colum can be customized to meet your requirements, for
instance with optional operation modes or optional luminaires.
From 2 to 15 solar modules. Total height from 4-10 meters.

BENEFITS
- 100 % green solusion
- No expences for cabling – 100 % stand alone
- No costs for operation
- Aesthetic design

COLUMN	
COLUMN	TRIANGULAR EXTRUDED ALUMINUM Ø250 / 4 MM
STANDARD FINISH	NATURAL ANODIZED 20µm
STANDARD	EN AW6063-T6
TOTAL HEIGHT	3,5 - 10 METER
TOTAL WEIGHT (KG)	100 - 250 KG.
CERTIFICATE OF CONFORMITY	EN 10-90/CE

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

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 TO + 85°C
STANDARD	IEC60904

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