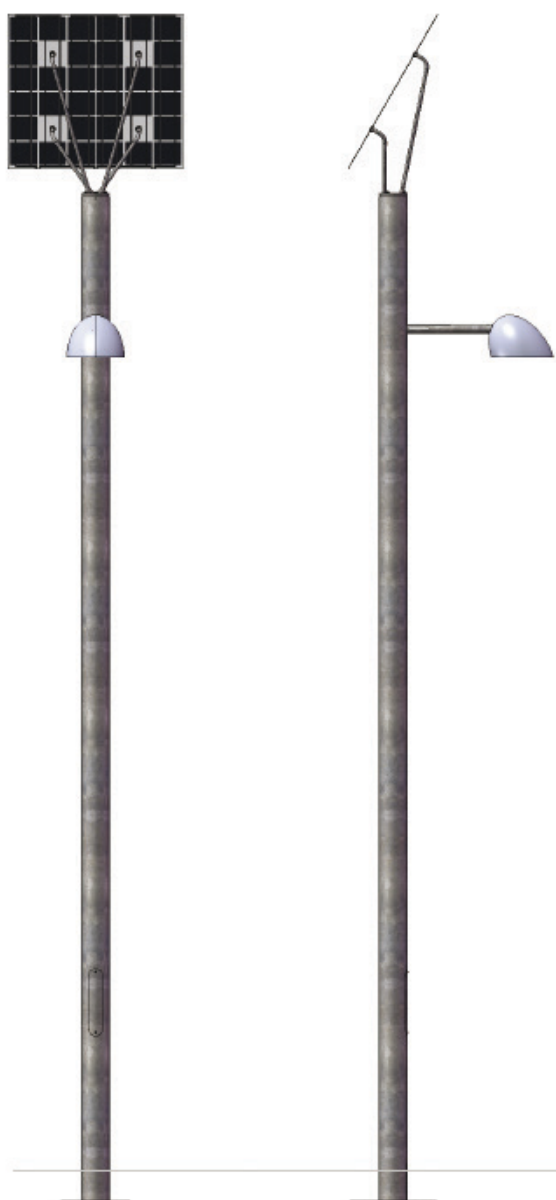




DATA SHEET

PRIESS SUNGLASS



DESCRIPTION

Priess Sunglass is a traditional, designed, flat-panel solar cell solution. The solar panel is a glass-glass solution with monocrystalline bifacial solar panels to exploit reflections and absorb energy from the panel's front and rear sides.

Sunglass is ideal for installations which require the solar panels to be higher than buildings and vegetation and which need to supply highly-efficient, stand-alone battery set-ups.

Sunglass combines PRIESS's familiar controlling of regulated MPPT battery-charging with LED lighting control. The Priess control system has a 365-day calendar which controls day-to-day consumption all year round.

The Priess control system ensures high-efficiency charging and maintains a balance between consumption and charged energy. Sensors can be connected to the control system to dim the lighting to the preferred level as lighting needs diminish.

The Priess control system is available with online access so the system user can monitor the column's production, consumption and battery voltage. Online access gives the user the additional option of locally controlling the lighting for special occasions where more or less lighting than the programmed level is preferred.





COLUMN	
COLUMN	CYLINDRIC Ø168 / 6 MM / S235 / S355
STANDARD FINISH	HOT DIPPED GALVANIZED
STANDARD	EN 12944 / ISO 1461
TOTAL HEIGHT	3,5 - 10 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

**SUNGLASS SOLAR MODULES**

TECHNOLOGY	MONOCRYSTALLINE >19,6%, 3MM / 4MM TEMPERED GLASS
SHADOW PROTECTION	INTEGRATED BPD
DIMENSIONS	1041 X 1061 X 7 MM
WATT PEAK	187 WP
EXPECTED LIFETIME	>25 YEARS
STANDARD	IEC60904

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

ACCESSORIES

REMOTE WEB ACCESS COMMUNICATION
IR-SENSOR / MOTION DETECTION FOR MAXIMUM POWER SAVINGS