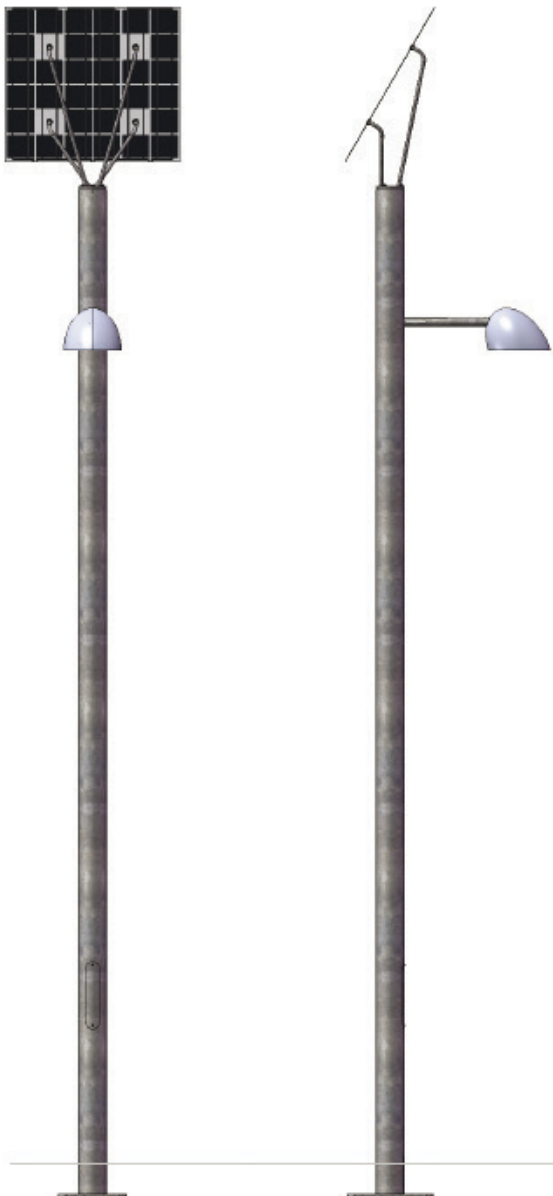




DATA SHEET

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.





DATA SHEET

PRIESS SUNGLASS

COLUMN	PLUG AND PLAY / SAFE
LIGHT POINT HEIGHT	FLEXIBLE 2,5 M-8,0 M
DIAMETER	Ø168
TOTAL WEIGHT	FROM +160 KG
INSTALLATION	BASEPLATE AND FOUNDATION
STEEL PARTS (RECYCABLE)	HOT DIP GALVANIZED, CE 12767. S235-S255
SERVICE HATCH	85 X 140 MM, SECURITY LOCK OPTIONAL
EC CERTIFICATE OF CONFORMITY	EN 10 -90 / CE
WIND CLASSIFICATION	AVERAGE 24 M/S
BRACKET	FLEXIBLE FROM 180 MM. TOP MOUNTING OPTIONAL

SOLAR MODULES	
SOLAR MODULE PR. COLUMN	STANDARD /BIFACIAL
DIMENSIONS OF SOLAR MODULES	1041 MM / 1061 MM / 6,9MM
TECHNOLOGY	MONOCRYSTALIN, 18 % SILICIUM SOLAR CELLS
PEAK POWER OUTPUT PR. PANEL	165WP 5-15% EKSTRA FOR BIFACIAL VERSION
LIFETIME	20 YEARS FUNCTIONAL WARRANTY (80%)
GLASS PLATE WEIGHT	9 KG.
OPERATING TEMPERATURE	-40 C - + 85 C
VOC	21,5 VOLT
ISC	9,5 AMP

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



DATA SHEET

PRIESS SUNGLASS

CONTROL UNIT AND POWER MANAGEMENT SYSTEM

OPERATION MODE	STAND ALONE, SAFE OR ACTIVE*
DIMMING	0-100 %
OPERATION TEMPERATURE	-40°C – +85°C
BATTERY VOLTAGE, SUPPORTED	10,8 – 14 VOLT. CUT OFF AT 10.8 VOLT
LIGHT MANAGEMENT	ASTRONOMICAL CLOCK, 365 DAYS PRE-PROGRAMMED
LED DRIVER	12 VOLT DRIVER FOR LED LUMINAIRES BUILT IN
GPRS WEB CONNECTION/WIFI	850/900 MHZ
CONTROL UNIT ACCESS	USB PORT. WEB CONNECTION OPTIONAL
OUTPUT CURRENT MAX	50-2000 MA DC
OUTPUT VOLTAGE MIN/MAX.	12 /130 VOLT DC
MAXIMUM WATTAGE SUPPORTED	65 W
CERTIFICATION ELECTRONICS	IP66

*Stand Alone: 100% battery, *Safe: Combined battery and grid connection, *Active: 100% grid connection

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	LI-ON, LI-FI, AGM, LEAD-ACID, LEAD-GEL, NI-MH.
AUTONOMY	3-10 DAYS

ACCESSORIES

REMOTE WEB ACCESS COMMUNICATION

IR-SENSOR / MOTION DETECTION FOR MAXIMUM POWER SAVINGS