OYA

SOLAR COLUMN

ENVIRONMENTALLY FRIENDLY, RELIABLE
AND SMART LIGHTING

For parks, pedestrians areas,
secondary streets and parking lots

PETITJEAN

OYA
SOLAR COLUMN

DESIGNED FOR RELIABILITY AND DURABILITY

LOW MAINTENANCE AND OPERATING COSTS EVEN UNDER HARSH CONDITIONS

SMART LIGHTING

Smart energy management is key to reliable, autonomous solar lighting. It shall give you the light you need, when you need, even in winter in cloudy weather.
Full power lighting hours and «on demand» lighting upon movement detection are automatically set by the smart control unit depending on night duration and battery level, in order to optimize lighting at any time of the year.
OYA solar column integrates one of the smartest solar lighting control units available on the market, with thousands of lines of code to optimize security, battery life and comfort.

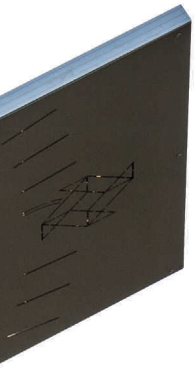
The solar panel powers the battery during daylight.

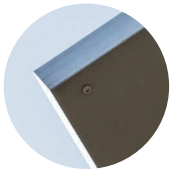
The LED lighting turns on at dusk, when ambient light becomes insufficient.

The LED lighting turns on at full power on movement detection.

DISTANCE BETWEEN POLES

ROAD WIDTH	LIGHTING CLASS	AVERAGE ILLUMINANCE EM	UNIFORMITY UO	OYA POLE TYPE	MAXIMUM DISTANCE BETWEEN POLES
7 m	CE2	≥ 20 lux	≥ 0,4	52 W - 6 m	18 m
7 m	CE3	≥ 15 lux	≥ 0,4	52 W - 6 m	24 m
5 m	CE2	≥ 20 lux	≥ 0,4	52 W - 6 m	24 m
5 m	CE3	≥ 15 lux	≥ 0,4	24 W - 4 m	21 m
5 m	S2	≥ 10 lux	≥ 0,4	24 W - 4 m	24 m
3 m	S1	≥ 15 lux	≥ 0,4	52 W - 6 m	32 m
3 m	S1	≥ 15 lux	≥ 0,4	24 W - 4 m	22 m
3 m	S2	≥ 10 lux	≥ 0,4	52 W - 6 m	36 m





PROTECTED SOLAR PANEL

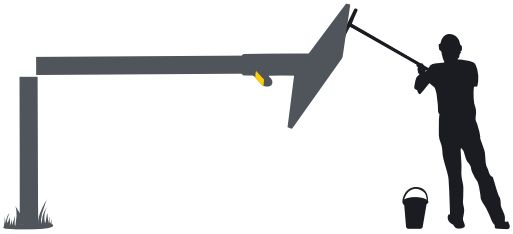
With tempered-glass protection on top and vandal-proof aluminium black plate.

ALUMINIUM COLUMN

Straight or «diabolo»-shaped, extra-large diameter for better wind resistance, anodized (optional)

OPTIONAL HINGE

Easy cleaning of solar panel and LED optics when needed.



EASY INSTALLATION

on precast concrete foundation: no power grid connection, lightweight aluminium column and NiMh battery, no crane, no delay.

PERFECT FOR WETLAND AREAS

No ground connection, no electric equipment at the bottom of the pole.

LED LUMINAIRE

With integrated infrared motion sensor and solar-specific electronic driver. CREE LED module, anodized aluminium casing, IP 66.

SUPER-LONG-LIFE Ni-MH BATTERY

Integrated into the top of the pole for increased protection against vandalism, theft, corrosion and sand winds.

The battery is the most expensive part of the solar column.
It is a key element of quality, durability and operational costs.

> *Developped by SAFT and manufactured by ARTS Energy in France*

> *More than 12-year lifetime in Europe, 8-year lifetime in hot countries, permanently monitored by the control system*

> *Heat-tolerant (-40°C +70°C operating temperature), deep discharge tolerant*

> *No heavy metals (fully RoHS-compatible), recyclable > 98%*

> *Fire protection by integrated thermofuse*

> *Number of charge/discharge cycles :*
Lead battery: about 500
Lithium battery: about 1200
NiMH battery: more than 3500

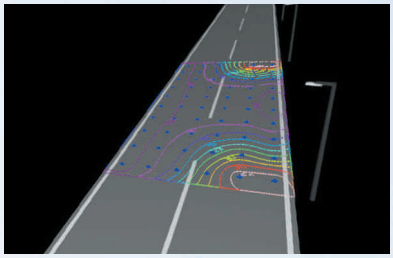
SMART MANAGEMENT UNIT

Lighting control and permanent monitoring of lighting, battery usage and components lifetime. Optional Internet of Things connection.

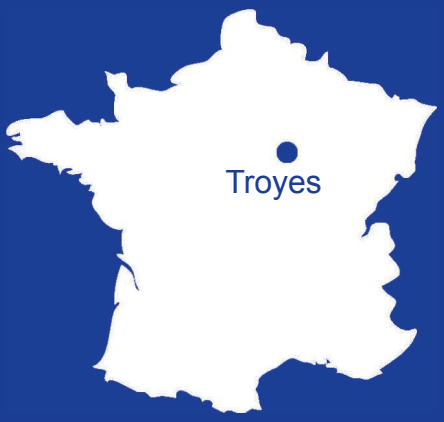
PETITJEAN

LIGHTING CALCULATION

Ask us for a free lighting analysis of your project in order to calculate the number of needed columns, their optimal positioning and select the best LED optics.



	HEIGHT (LUMINAIRE)	SOLAR POWER	BATTERY CAPACITY	MOTION SENSOR	LED POWER	IoT REMOTE MONITORING
OYA 24W	4 m	100 Wc	240 Wh	Long range IR sensor	24 W	Optional
OYA 24W	4 m	100 Wc	240 Wh	Long range IR sensor	24 W	Optional
OYA 52 W	6 m	200 Wc	480 Wh	Long range IR sensor	52 W	Optional



designed and manufactured in France

OYA
SOLAR COLUMN

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