



NOVEA

GROUPE RAGNI

SOLAR LIGHTING,
DESIGNED TO LAST

COMBI APP

AUTONOMOUS LIGHTING
to secure your buildings
and remote locations

COMBI APP RANGE IS:

€0 in energy consumption, civil engineering,
and electrical connection costs.

Lighting provided all year round
(built-in-anti-blackout algorithm).

**A high-performance solution that is
quick to install.**

**The most durable solution on the
market** requiring no major maintenance for
over 10 years.

APPLICATIONS :

Residencial, hamlet, technical
room, company, industrial
zone...

EXPLODED VIEW OF COMBI APP

A HIGH-PERFORMANCE SOLUTION AT THE BEST COST ON THE MARKET.



Battery Endurance +

Battery and electronics with unique performance.
Service life > 10 years
(4 000 cycles at 40% DoD at 35 °C).



Solar panel

High performance solar panel, self-cleaning.
Service life > 25 years

Cast aluminium box

Structure

Sized according to EN40 norm and Eurocode 1991-1-4.
Service life > 30 years
Height of your choice.
Optional seaside treatment.

LED Luminaire

High performance: Up to 165 lm/W, IP66 IK08.
Die-cast aluminum housing, flat tempered glass cover.
Service life > 20 years.

TECHNICAL SPECIFICATIONS

3 POWER LEVELS TO SUIT YOUR LIGHTING NEEDS

SOLAR PANEL

- Power
- Tilt

COMBI APP 1	COMBI APP 3	COMBI APP 5
70 Wp	190 Wp	400 Wp
15° or 30°	15° or 20°	15° or 20°

BATTERY AND REGULATOR

- Technology
- Localization
- Capacity
- Operating temperature
- Service life

Endurance+ Technology featuring Lithium Iron Phosphate battery cells and an MPPT controller designed by Novéa in partnership with the CEA in Grenoble.		
Behind the solar panel in the box		
214 to 436 Wh	557 to 1126 Wh	1 114 to 1 638 Wh
-20°C to +65°C		
> 10 years		

LUMINAIRE

- Luminous flux
- Color temperature

700 to 3 600 lumens	2 800 to 7 200 lumens	4 200 to 10 800 lumens
2 200 K, 2 700 K, 3 000 K or 4 000 K (others on request)		

INFORMATIONS MÉCANIQUES

- SC_x
- Weight

0.432	0.63	1.24
31 kg	91 kg	107 kg

3 POSSIBLE CONFIGURATIONS DEPENDING ON YOUR PROJECT

BUILDING-MOUNTED



WITH **INTEGRATED** LIGHTING



WITH **OFFSET** LIGHTING



ON AN EXISTING POLE



To ensure compliance, the client must **verify in advance the structural integrity of the existing mast** (weight and SCx) in accordance with current standards.

WITH **INTEGRATED** LIGHTING



WITH **OFFSET** LIGHTING



FOR INSTALLATION:

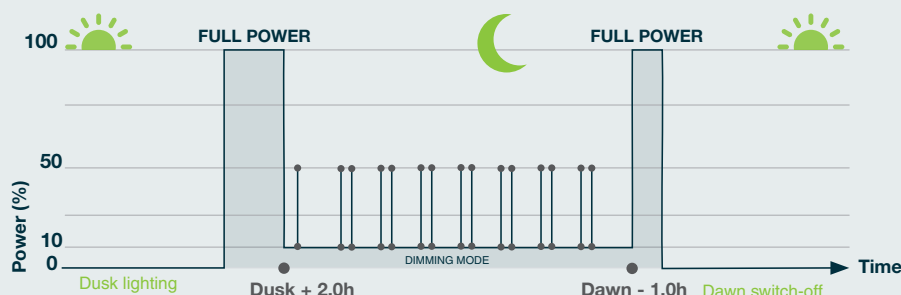
- *Mounting the bracket using a metal strap.*
- *Custom mounting plate. For installations on concrete poles, a mounting plate and backing plate are supplied.*

A CHOICE OF LIGHTING PROGRAMS TO BEST ACCOMMODATE USERS.

Choose your lighting scenario, and we will determine the available lighting power.
The longer the duration at full power, the lower the lighting power will be.

A EXAMPLE : FULL POWER + STANDBY

100% for 2 hours after dusk and 1 hour before dawn
10% standby mode for the rest of the night, with 3 hours of motion detection
(350 passes, 30-second duration)



PERSONALIZATION

STANDBY

(Schedule to be determined upon ordering).

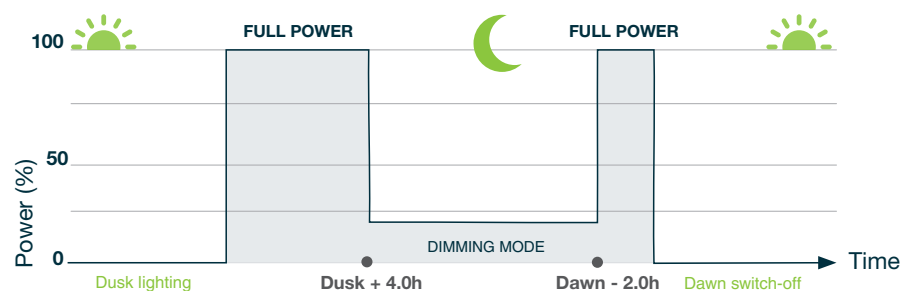
Detection



Presence detector integrated into the luminaire or remote.

B EXAMPLE : FULL POWER + STANDBY

100% for 4 hours after dusk and 2 hours before dawn
+ 10% standby mode all night long



PERSONALIZATION

STANDBY

(Schedule to be determined upon ordering).

SMART LIGHTING MANAGEMENT

The Combi App solution is compatible with our smart options designed to promote responsible lighting that closely matches user needs, while limiting energy consumption.

COMMUNICATING NODE NOVCOM Z

Mounted on the luminaire or on the solar panel, depending on the type of luminaire selected.



NOVMOOV

Communicating motion
detection system

NOVEA LINK

Mast-base Bluetooth® management
application

SEV@Connect

Remote monitoring platform
(requires a LoRaWAN network)

Check out our
website!



Find our latest news
on our social media
channels.

