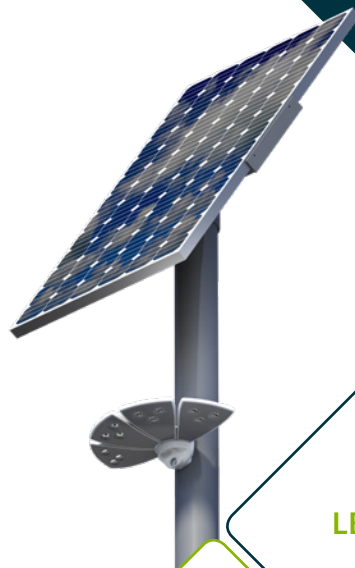
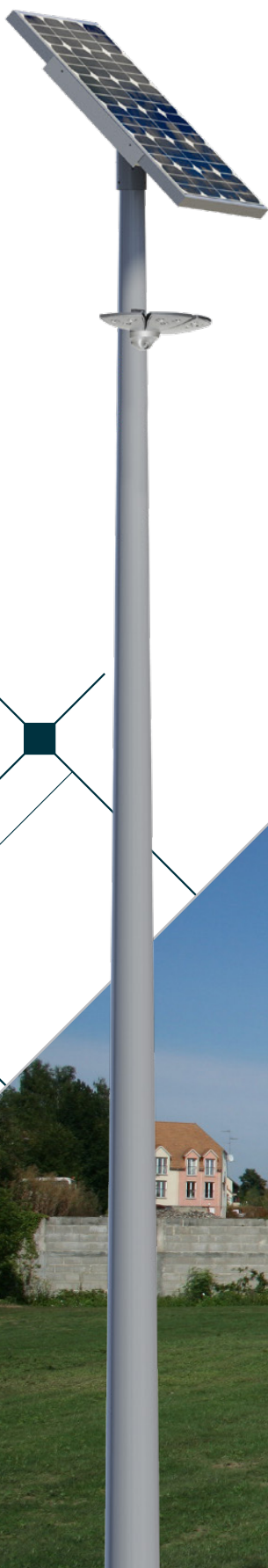


COMBI 2 MARGO COMBI 3 MARGO

AUTONOMOUS LIGHTING
A DURABLE SOLUTION



NOVEA
LEADER IN SOLAR STREET
LIGHTING

endurance+
TECHNOLOGY

THE MOST DURABLE AND
PERFORMING BATTERY OF
THE MARKET



0€ OF TRENCH WORK
0€ OF CABLE
0€ OF ELECTRICITY BILL
0€ OF CONSOMMATION
0€ OF SUBSCRIPTION



FOOTPATH
BUS STOP
PEDESTRIAN CROSSING
SQUARE
RESIDENTIAL AREA
BIKEPATH
HAMLET
PARKING

TECHNICAL CHARACTERISTICS

COMBI 2 COMBI 3

SOLAR PANEL

Power / Area	100 Wp / 0,64 m ²	160 Wp / 1 m ²
Technology	Cristallin high efficiency	
Rear cover	Powder-coated galvanized steel	
Lifetime	> 25 years	

BATTERY

Technology	Endurance +, Lithium Iron phosphate
Capacity	345 at 690Wh
Location	NOVBAT aluminium casing, IP66, fast connectors, located into the pole, accessible by access hatch
Lifetime	> 20 years*

LUMINAIRE

Template	Margo Mini or Mega 4 petals 12 or 24 LED
Mechanical data	Cast aluminium - IP66 - IK08
Light height	4.0 m or 5.0 m
Power consumption	10 - 40 W
Luminous flux leaving	1 600 - 6 600 lm
Light efficiency	Up to 165 lm/W
Color temperature	3 000 K or 4 000 K // IRC > 70
Lifetime	> 80 000 h at 80% of initial flux

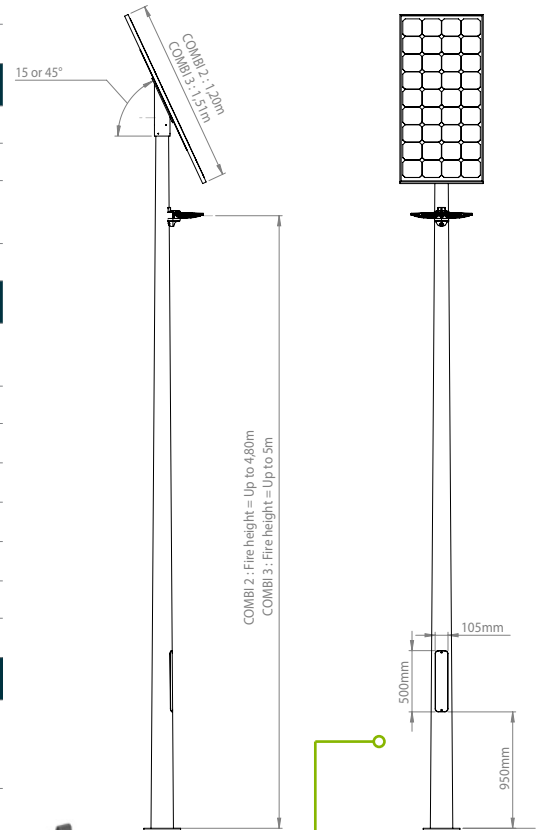
LIGHT CONTROL

Electronic NOVEMS	Designed by Novea 70W/-20°C +80°C / Efficiency 95% Expected lifetime of 20 years
Functions and lighting management	Switchoff and/or dimming during the night Presence detection (option) Informations storage Weather counter of operation Calculation of the battery charge level
Protection	Deep discharge, Overload, Temperature, Short circuit

BRACKET MAST AND STICK

Mast material	Cylindro-conical powder-coated galvanized steel
EN40 compliant	Wind zone 28m/s (solar panel inclined at 45°) and 36m/s (solar panel inclined at 15°)

Dimensions

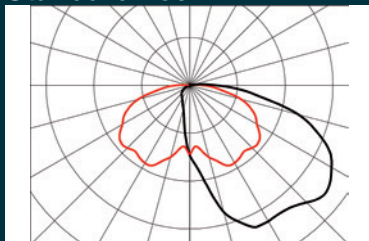


NOVBAT

RUGGED AND LONG-LASTING
Service life > 20 years*

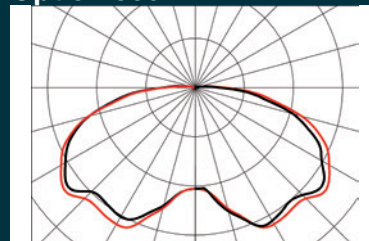
Photometry

Standard 180°



Optimal lighting to the roads or paths without rear flux.

Option 360°



Adapted for highlight places or parkings.

Surface	Ht	10 W	20 W	30 W	Uniformity
15*3 m	4 m	7.94	15	25	0,307
15*3 m	5 m	6.35	12	20	0,440
20*5 m	4 m	5.39	10	17	0.198
20*5 m	5 m	4.58	8.80	14	0,28
25*5 m	5 m	3.67	7.06	12	0,18
25*6 m	6 m	3.05	5.86	9.55	0.266
30*7 m	6 m		4.70	7.66	0.192

Luminous flux expressed in middle flux.
For each application, an energetic study will be provided to validate capacities of the product (power, lighting time, autonomy).

* For the temperate area