

COMBI TOP 1

AUTONOMOUS LIGHTING
A DURABLE SOLUTION

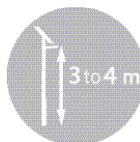
TEKK

GRIFF

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 CONSUMPTION
0€ OF SUBSCRIPTION



BUS STOP
FOOTPATH
VOLUNTARY DROP POINTS
TRADE AREA
SQUARE



TECHNICAL CHARACTERISTICS

COMBI TOP 1

SOLAR PANEL

Power / Area	25 Wp / 0,17 m ²
Technology	Cristallin high efficiency
Lifetime	> 25 years

BATTERY

Technology	Endurance +, Lithium Iron phosphate
Capacity	345 Wh
Location	NOVBAT aluminium casing, IP66, fast connectors, located under solar panel
Lifetime	> 20 years*

LUMINAIRE

Template	GRIFF S or TEKK S, 8 or 16 LED
Mechanical data	Cast aluminium - Plate tempered glass protection - IP66 - IK08
Light height	3.3 m
Power consumption	7 - 10 W
Luminous flux leaving	829 - 1 166 lm
Light efficiency	> 117 lm/W
Color temperature	3 000 K or 4 000 K // IRC > 70
Lifetime	> 80 000 h at 80% of initial flux

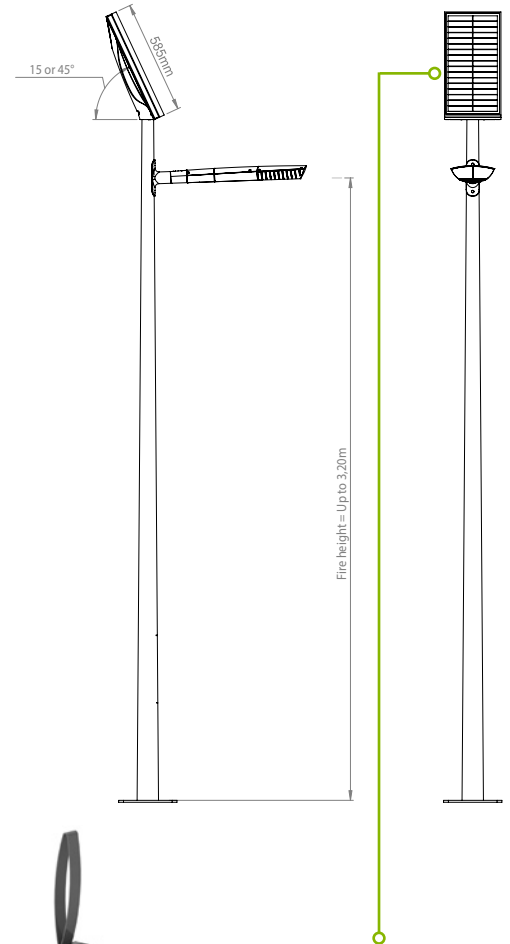
LIGHT CONTROL

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

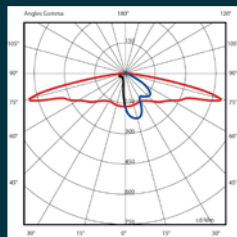


NOVBAT

RUGGED AND LONG-LASTING
 Service life > 20 years*

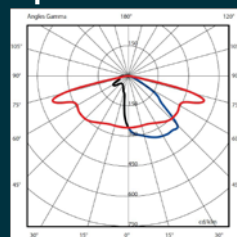
Photometry

Standard ASY13



Designed for the pedestrian lighting street and bike paths.

Option ASY10



Designed for the road lighting of narrows road and urban streets.

x x y	7W	10W	Uniformity
12x2m	13	19	0.52
15x3m	10	15	0.48
20x3m	8	11	0.39

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

