

COMBI 1

AUTONOMOUS LIGHTING
A DURABLE SOLUTION



TEKK

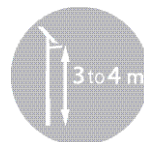


GRIFF

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 CONSUMMATION
0€ OF SUBSCRIPTION



BUS STOP
FOOTPATH
VOLUNTARY DROP POINTS
TRADE AREA
SQUARE



TECHNICAL CHARACTERISTICS

COMBI 1

SOLAR PANEL

| | |
|--------------|-------------------------------|
| Power / Area | 25 Wp / 0,17 m ² |
| Technology | Cristallin high efficiency |
| Rear cover | Powder-coated galvanied steel |
| Lifetime | > 25 years |

BATTERY

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

LUMINAIRE

| | |
|-----------------------|--|
| Template | GRIFF S, 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 |

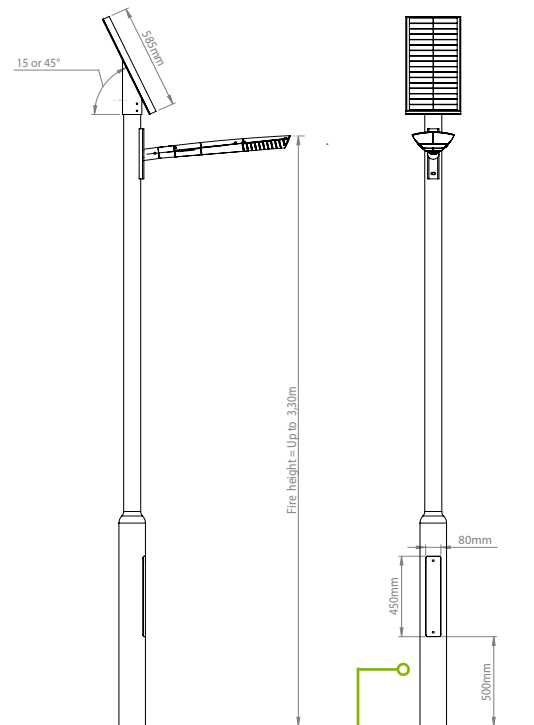
LIGHT CONTROL

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

Dimensions

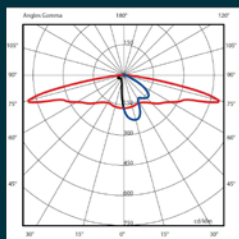


NOVBAT

RUGGED AND LONG-LASTING
Service life > 20 years*

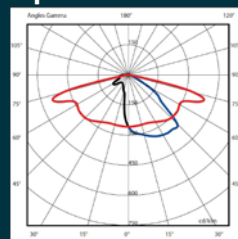
Photometry

Standard ASY13



Designed for the pedestrian lighting street and bike paths.

Option ASY10



Designed for the road lighting of narrow 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

