

COMBI TOP 2 COMBI TOP 3

AUTONOMOUS LIGHTING
A DURABLE SOLUTION



TEKK



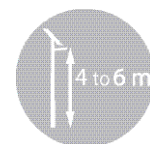
GRIFF



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 CONSOMMATION
0€ OF SUBSCRIPTION



FOOTPATH
BUS STOP
PEDESTRIAN CROSSING
RESIDENTIAL AREA
BIKEPATH
PARKING



TECHNICAL CHARACTERISTICS

COMBI TOP 2 COMBI TOP 3

SOLAR PANEL

Power / Area	100 Wp / 0,64 m ²	160 Wp / 1 m ²
Technology	Cristallin high efficiency	
Lifetime	> 25 years	

BATTERY

Technology	Endurance +, Lithium Iron phosphate	
Capacity	345 at 819Wh	
Location	NOVBOX aluminium casing, IP66, fast connectors, located under solar panel	
Lifetime	> 20 years*	

LUMINAIRE

Template	GRIFF S, TEKK S 16 at 32 LED GRIFF XL, TEKK M, 48 at 80 LED	
Mechanical data	Cast aluminium - Plate tempered glass protection - IP66 - IK08	
Light height	4.0 or 5.0 m	5.0 or 6.0 m
Power consumption	10 - 40 W	
Luminous flux leaving	1 600 - 6 520 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	

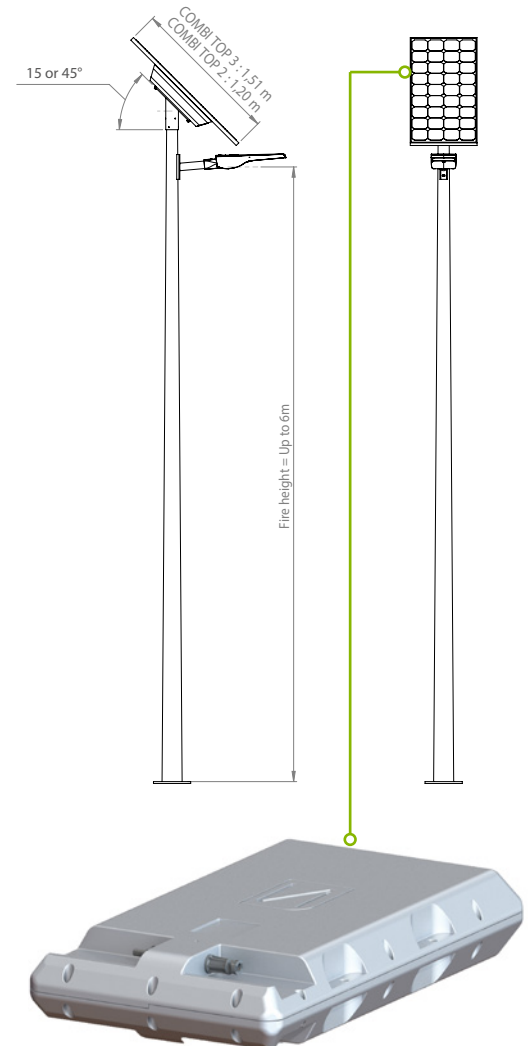
LIGHT CONTROL

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

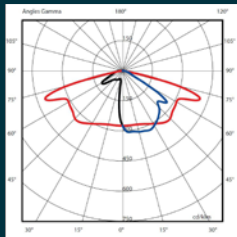


NOVBOX

RUGGED AND LONG-LASTING
Service life > 20 years*

Photometry

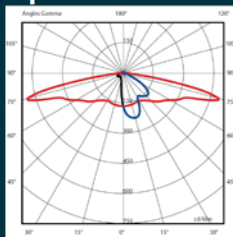
Standard ASY11



Designed for the lighting of average road and lighting street.

ASY010 Designed for the lighting of narrows road and urban streets.
PC02 Designed for the lighting of wide road and pedestrian crossing.

Option ASY13



Designed for the pedestrian lighting street and bike paths.

Surface	Ht	10 W	20 W	30 W	Uniformity
16*3 m	4 m	13	25	38	0.38
16*3 m	5 m	10	20	31	0.47
20*5 m	4 m	8.7	17	26	0.38
20*5 m	5 m	7.5	15	23	0.41
25*6 m	5 m	5.6	11	17	0.37
25*6 m	6 m	5	10	15	0.39
30*7 m	6 m	8	12	17	0.37

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

