

# Bright Start and Bright Start +

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Bright Products  
Results based on test procedures detailed in  
IEC 62257-9-5 v.4

Verify online:  
<https://data.verasol.org/products/sek/bp-start>  
Valid until: August 31, 2022



Meets the Lighting Global Pico-PV Quality Standards



Light point

Plug-and-play



## WARRANTY INFORMATION

A 2-year warranty covering manufacturing defects.

## PERFORMANCE DETAILS

Setting	Description	Run time after a typical day of solar charging (assuming 5kWh/m <sup>2</sup> /day)	Total light output (lumens)
High	0.31 W	4.6 hours	28 lumens
Medium	0.11 W	13 hours	--
Low	0.02 W	80 hours	--

Available daily electrical energy (Wh/day) 1.4

Performance measure	Brightness setting: High
Lighting full battery run time (hours)	4.6
Total lighting service (lumen-hours/solar-day) (includes the both main lighting unit and any auxiliary lights included with the product)	130

## LIGHTING DETAILS

Lamp name	Number of lamps	Number of settings	Setting	Light output (lm)	Lumen efficacy* (lm/W)	CR <sup>†</sup> **	CCT***	Distribution type	Lumen maintenance****
Integrated Light	1	3	High	28	92	85	5029	Wide	100%


\* Lumen efficacy is the power consumption at a light point during the light output test.

† Color Rendering Index. An index of 100 is equivalent to viewing objects in daylight; above 80 is considered good.

‡ Correlated Color Temperature in degrees Kelvin. Describes color appearance as warm (2700-3000 K), cool (3000-5000 K), or daylight (>5000 K)

§ Percent of the original light output that remains after 2,000 hours of run time

## SPECIAL FEATURES

The Bright Start + can be charged using a micro USB 

## DURABILITY

Overall durability and workmanship	Pass
Durability tests passed	Switch test, Drop test, Strain relief test, physical ingress protection.
Level of water protection	Main Lighting Unit/ Integrated PV Module Has protection from permanent outdoor exposure; met IP64

## SOLAR DETAILS

PV module type	Monocrystalline silicon
PV maximum power	0.43 watts

<b>BATTERY DETAILS</b>	
Battery replaceability	Not easily replaceable with common tools.
Battery chemistry	Lithium iron phosphate
Battery package type	14430
Battery capacity	0.44 Ah
Battery nominal voltage	3.2 V
Battery status indication	One indicator for charging, One indicator for battery state of charge
<b>MARKS AND CERTIFICATIONS</b>	
Factory certification	ISO 14001:2015
Other certification	CE; ROHS
<b>PRODUCT DETAILS</b>	
Manufacturer name	Bright Products
Product name	Bright Start and Bright Start +
Product model / ID number	--
Contact information	info@bright-products.com
Website	http://bright-products.com/
Dimensions (entire product in package)	7.5 x 11.1 x 3 cm
Mass	115 g
<b>SSS INFORMATION</b>	
Specs sheet expiration date	August 31, 2022
Quality standards framework version	2019
Revision	2019.12