

# Villageboom High Power +

VB-5W-1L  
Villageboom GmbH

Verify online:  
<https://data.verasol.org/products/sek/vb-vbh>  
Valid until: June 30, 2023

Results based on test procedures detailed in IEC TS 62257-9-5



Meets the Lighting Global Pico-PV Quality Standards



Mobile charging from PV module

1

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)
Integrated torch (On)	5 LEDs on, 1.2 W power	8.7 hours	82 lumens
Integrated side lamp (High)	8 LEDs on, 2.7 W power	3.8 hours	270 lumens
Integrated side lamp (Medium)	4 LEDs on, 1.3 W power	11 hours	not tested

Available daily electrical energy (Wh/day) 10

Performance measure	Brightness setting: High
Lighting full battery run time (hours)	3.8
Total lighting service (lumen-hours/solar-day) <small>(includes the both main lighting unit and any lights with internal batteries included with the product)</small>	1030

## LIGHTING DETAILS


Lamp name	Number of lamps	Number of settings	Setting	Light output (lm)	Lumen efficacy* (lm/W)	CRI**	CCT***	Distribution type	Lumen maintenance****
Integrated torch	1	1	On	82	71	69	9850	Narrow	99%
Integrated side lamp	1	2	High	270	130	85	5120	Wide	99%

\* 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		
Mobile Charging		Can charge mobile phone from one USB 2.0 Type A port on solar panel
DURABILITY		
Overall durability and workmanship		Pass
Durability tests passed		Switch test, Drop test, Strain relief test, Physical ingress protection
Level of water protection	VB-014 main unit	Has protection from occasional rain; met with appropriate warning label
	5.5 W PV module	Has protection from permanent outdoor exposure
SOLAR DETAILS		
PV module type		Polycrystalline silicon
PV maximum power		5.2 watts
MAIN UNIT BATTERY DETAILS		
Battery replaceability		Easily replaceable with common tools; however, the warranty is void if product is opened.
Battery chemistry		Lithium-ion
Specific Li-ion battery chemistry		lithium cobalt oxide
Battery package type		18650
Battery capacity		5 Ah
Battery nominal voltage		3.7 V
Battery status indication		One indicator on both the main unit and Solar Bulb each for PV charging.
PRODUCT DETAILS		
Manufacturer name		Villageboom GmbH
Product name		Villageboom High Power +
Product model / ID number		VB-5W-1L
Contact information		ricke@villageboom.com
Website		www.villageboom.com
Dimensions (entire product in package)		Multiple packages. Contact manufacturer for more information.
Mass		n/a
SSS INFORMATION		
Specs sheet expiration date		June 30, 2023
Revision		2022.01