## **HP30B Multi-light System**

HP30B-VL3T ovSolar Power Company Ltd.

Verify online:

https://data.verasol.org/products/sek/ovs-hp30b

Valid until: April 30, 2024

Results based on test procedures detailed in IEC TS 62257-9-5 and IEC TS 62257-9-8



Meets the requirements in IEC TS 62257-9-8:2020 for Size A Kits



Mobile charging



Light point(s)



Plug-and-play





Run time after a typical day of solar charging

## **WARRANTY INFORMATION**

PERFORMANCE DETAILS

A 2-year warranty covering manufacturing defects for the full system.

				(assuming 5	kWh/m²/day)
VeraSol Certified?	Included in Kit?	Appliance <sup>a</sup>	Description	Used alone <sup>b</sup>	Used in combination <sup>c</sup>
yes	included	Main lighting unit	3 UFO lights on "Super" totaling 600 lumens and 5.3 W power	5.7 hours	3.5 hours
yes	included	Torch	54 lumen torch, (Li-ion battery: 2 Ah, 3.7 V)	18 hours	3.5 hours
no	not included	Mobile phone	Basic phone (3.7 Wh battery)	4.4 full charge(s)	0.87 full charge(s)

Available daily electrical energy <sup>c</sup> (Wh/day)	20
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Performance measure	Brightness setting: Three UFO lights on "Super", one torch on "Super"
Lighting full battery run time <sup>d</sup> for main unit (hours)	7.2
Lighting full battery run time of the Torch powered by Torch battery (hours)	24
Total lighting service (lumen-hours/solar-day) (includes the both main lighting unit and any lights with internal batteries included with the product)	2810

<sup>&</sup>lt;sup>a</sup> Only included appliances were tested. Run times and power ratings for appliances sold separately come from manufacturer ratings or standard estimates.

d Lighting full battery run time estimates do not account for mobile phone charging or other auxiliary loads; the run time is defined as the time until the output is 70% of the initial, stabilized output.

LIGHTING DETAILS									
Lamp name	Number of lamps	Number of settings	Setting	Light output (lm)	Lumen efficacy <sup>e</sup> (Im/W)	CRI <sup>f</sup>	CCT <sup>g</sup>	Distribution type	Lumen maintenance <sup>h</sup>
UFO light	3	3	Super	200	110	88	5900	Wide	99%
Torch	1	3	Super	54	58	91	3700	Wide	99%

<sup>&</sup>lt;sup>e</sup> Lumen efficacy is the power consumption at a light point during the light output test.

<sup>&</sup>lt;sup>b</sup> Without any other loads used during the run time

<sup>&</sup>lt;sup>c</sup> Based on an example use profile with all of the appliances listed in the "Used in combination" column used simultaneously.

<sup>&</sup>lt;sup>f</sup> Color Rendering Index. An index of 100 is equivalent to viewing objects in daylight; above 80 is considered good.

<sup>&</sup>lt;sup>g</sup> Correlated Color Temperature in degrees Kelvin. Describes color appearance as warm (2700-3000 K), cool (3000-5000 K), or daylight (>5000 K)

<sup>&</sup>lt;sup>h</sup> Percent of the original light output that remains after 2,000 hours of run time

Mobile phones and torch can be charged. Adapters are included.   3   Servel Jack	PORTS						
Durability   Sask passed   Pass   Switch test, Drop test (Torch), Strain relief test, Physical ingress protection, PV durability tests passed   Wain Unit   Water ingress protection not tested, meant for indoor use only.	2	USB 2.0 type A	Mobile phones and torch can be charged. Adapters are included.				
Overall durability and workmanship  Durability tests passed  Main Unit Water ingress protection not tested, meant for indoor use only.  PV module Has protection from permanent outdoor exposure  PV module type PV maximum power PV maxim		Barrel jack	12 V ports available to power light points.				
Switch test, Drop test (Torch), Strain relief test, Physical ingress protection, PV durability tests    Main Unit   Water ingress protection not tested, meant for indoor use only.	DURABILITY						
Level of water protection    Main Unit   Water ingress protection not tested, meant for indoor use only.  PV module   Has protection from permanent outdoor exposure	Overall durability	/ and workmanship		Pass			
Level of water protection	Durability tests p	passed		Switch test, Drop test (Torch), Strain relief test, Physical ingress protection, PV durability tests			
Torch Has protection from occasional rain; met with appropriate warning label  SOLAR DETAILS  PV module type Polycrystalline silicon 7.4 watts  MAIN UNIT BATTERY DETAILS  Battery replaceability Easily replaceable with common tools; however, the warranty is void if product is opened.  Battery replaceability Lithium-ion  Specific Li-ion battery chemistry Lithium-ion  Specific Li-ion battery chemistry lithium nickel manganese cobalt oxide  Battery package type 18650  Battery capacity 10 Ah  Battery nominal voltage 3.7 V  Main unit. One indicator for PV charging and four indicators for battery level.  Torch: One indicator that shows charging status and use.  PRODUCT DETAILS  PRODUCT DETAILS  Product mane Product name HP30B Multi-light System  Product model / ID number HP30B-VL3T  Contact information Multiple packages. Contact manufacturer for more information.  Website Oxsolar.com  Multiple packages. Contact manufacturer for more information.  Multiple packages. Contact manufacturer for more information.  SSS INFORMATION  Specs sheet expiration date April 30, 2024			Main Unit	Water ingress protection not tested, meant for indoor use only.			
SOLAR DETAILS PV module type Polycrystalline silicon PV maximum power 7.4 watts  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 nickel manganese cobalt oxide Battery package type 18650 Battery package type 18650 Battery nominal voltage 3.7 V Main unit: One indicator for PV charging and four indicators for battery level. Torch: One indicator that shows charging status and use.  PRODUCT DETAILS  RAMINICATION Product name HP30B Multi-light System Product model / ID number HP30B-VL3T Contact information hozzlenge) Multiple packages. Contact manufacturer for more information.  Mass Multiple packages. Contact manufacturer for more information.  SSINFORMATION Specs sheet expiration date PAGING A varias of the water and the species of the product of the scription and the species of the product of the product of the scription date April 30, 2024	Level of water p	rotection	PV module	Has protection from permanent outdoor exposure			
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Battery replaceability Battery chemistry Lithium-ion  Specific Li-ion battery chemistry Battery package type Battery package type Battery capacity Battery capacity Battery nominal voltage Battery status/ other indicator lights  PRODUCT DETAILS  Manufacturer name Product name Product name Product mame Product mame Product mame Product model / ID number Contact information Website Dimensions (entire product in package) Mass Battery sheet expiration date  Battery sheet expiration date  Easily replaceable with common tools; however, the warranty is void if product is opened. Lithium-ion Lithium-Lithe Lithium-ion Lithium-Lithe	PV maximum po	ower		7.4 watts			
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Specific Li-ion battery chemistry   Battery package type   18650	Battery replacea	bility		Easily replaceable with common tools; however, the warranty is void if product is opened.			
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Battery capacity  Battery nominal voltage  Battery status/ other indicator lights  PRODUCT DETAILS  Manufacturer name  Product name  Product model / ID number  Contact information  Website  Dimensions (entire product in package)  Mass  Manufacturer for more information.  Mass  Multiple packages. Contact manufacturer for more information.  Specs sheet expiration date  10 Ah  10 Ah  3.7 V  Main unit: One indicator for PV charging and four indicators for battery level.  Torch: One indicator that shows charging status and use.  Product model / ID number  ovSolar Power Company Ltd.  HP30B Multi-light System  HP30B-VL3T  Contact information  hczheng@ovsolar.com  Multiple packages. Contact manufacturer for more information.  Mass  Multiple packages. Contact manufacturer for more information.  Specs sheet expiration date  April 30, 2024	Specific Li-ion b	attery chemistry		lithium nickel manganese cobalt oxide			
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Revision 2022.04	Specs sheet expiration date			April 30, 2024			
	Revision			2022.04			