

# Smarter Home HS2-144\_LB2244

Smarter Grid International Ltd.

Results based on test procedures detailed in  
Lighting Global Solar Home System Test Method, Ed. 3.0

Verify online:

[www.lightingglobal.org/products/sgj-ovcamphs1144](http://www.lightingglobal.org/products/sgj-ovcamphs1144)

Valid Until: November 30, 2019

## Available Daily Electrical Energy (Wh/day)

110

Lumens

1300



**Meets Lighting Global  
Quality Standards**



**Mobile Charging**

**PAYG**

**Pay-As-You-Go Option Available**

**4 Light Points**

**2 5-volt USB Ports**



**4 12-volt Ports**



### Warranty Information

A warranty covering manufacturing defects for 2 years for the battery and 3 years for the system.

### Performance Details

Appliance <sup>b</sup>	Description	Included with kit?	Power <sup>b</sup> (W)	Run Time After a Typical Day of Solar Charging <sup>a</sup>		
				Used Alone <sup>c</sup>	Used In Combination <sup>d</sup>	Run Time Units
Main lighting	4 light points on totaling 1300 lumens	included	12	9.3	3.2	hours
Torch	33 lumens	included	--	250	3.2	hours
Television	19" diagonal	sold separately	15	7.5	1.6	hours
Fan	stand fan	sold separately	10	11	4.0	hours
Radio	portable (3.7 Wh battery)	sold separately	--	54	2.4	hours
Mobile Phone	Basic phone (3.7 Wh battery)	sold separately	--	23	0.8	number of full charges
Mobile Phone	Smart phone (5.7 Wh battery)	sold separately	--	15	--	number of full charges
Television	24" diagonal	sold separately	18	6.3	--	hours
Television	32" diagonal	sold separately	22	5.1	--	hours
Public Amplifier	PA unit	sold separately	40	2.8	--	hours
Mobile Charging Station	9 ports with 1 A output, 1 port with 2.1 A output	sold separately	65	1.7	--	hours
Hair Cutter	portable (5 V input, 2.2 Wh battery)	sold separately	--	11	--	hours
Fishing Light Tube	different spectrum options for sea or fresh water use	sold separately	10	11	--	hours
Lighting Tube	LED Tube	sold separately	10	11	--	hours

Available daily electrical energy<sup>d</sup> (Wh/day): 110

Performance Measure	Brightness Setting: Four lights on
Lighting full battery run time <sup>e</sup> (hours)	14
Total light output in lumens <sup>f</sup>	1300

<sup>a</sup> A typical day of solar charging assumes 5 kWh/m<sup>2</sup>/day

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

<sup>c</sup> Without any other loads used during the run time

<sup>d</sup> Based on an example use profile with all of the appliances listed above used in combination

<sup>e</sup> 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.

<sup>f</sup> 1 candle or kerosene wick lamp = approximately 10 lumens

### Lighting Details

Lamp Name	Type	Number of Settings	Light Output (lm)	Lumen Efficacy (lm/W)	CRI <sup>g</sup>	CCT <sup>h</sup>	Distribution Type	Lumen Maintenance <sup>i</sup>
4 W bulb	LED	1	410	106	85	Cool (5000-7000 K)	Wide	>98%
2 W bulb	LED	1	210	106	85	Cool (5000-7000 K)	Wide	>98%

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

<sup>h</sup> Correlated Color Temperature in degrees Kelvin. Describes color appearance as warm, near daylight, or cool.

<sup>i</sup> Percent of the original light output that remains after 2,000 hours of run time

### Special Features

Mobile charging and appliances	Adapters included to charge mobile phones. USB and 12 V ports available to charge devices and power appliances.
Pay-as-you-go (PAYG)	- Encryption coded timer activation, and protocol that can be licensed to any system integrator, without hardware changes; - Firmware level power output cut-off, preventing tampering with bypassing of the power output lock

### Durability

Overall durability and workmanship	Pass
Durability tests passed	Drop test (applies to torch), switch and connector cycling, strain relief test, physical ingress protection, protection from occasional rain (applies to torch)

### Solar Details

PV module type	Polycrystalline silicon
PV maximum power	36 watts

### Battery Details

Battery replaceability	Easily replaceable with common tools
Battery chemistry	Lithium iron phosphate
Battery package type	4 x 26650 package
Battery capacity	13 Ah
Battery nominal voltage	12.8 V
Battery Status Indication	Digital display shows the remaining capacity, hours of available run time, and time required to fully charge.

### Marks and Certifications

Factory certification	ISO 9001
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<b>Product Details</b>	
Manufacturer name	Smarter Grid International Ltd.
Product name	Smarter Home HS2-144_LB2244
Product model / ID number	HS2-144_LB2244
Contact information	h.onoh@smartergridinternational.com
Website	www.smartergridint.com
Co-brand of	ovCamp HS2-144_LB2244, Omnivoltaic Energy Solutions Ltd.
Dimensions (entire product in package)	53 cm x 52 cm x 12 cm
Weight	7475 g
<b>SSS Information</b>	
Specs sheet expiration date	November 30, 2019
Quality Standards Framework Version	2017
Revision	2017.12